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INVENTIONS

Chronological List (1900—1904)

AND

Name Index (1900—1911)

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EXPLANATORY NOTE.

This volume contains (*a*) a chronological list of all applications for exclusive privileges for inventions under the Inventions and Designs Act, 1888 during the years 1900 to 1904 inclusive, and (*b*) a name index of all applicants for exclusive privileges during the years 1900 to 1911 inclusive. It consolidates much of the information given in the annual volumes for those years, which are now out of print, and supplements the consolidated volume of inventions, containing the subject-matter index 1900—1911 and chronological list 1905—1911 (price three rupees).

The chronological list is intended for reference when the number and year of any particular application has been found with the aid of the name index or subject-matter index. In using these the seacher should be careful to note that the specification is not always filed in the same year as the application, so that successive years should be consulted. For each application is given the registered number; the names of the applicants; the date of filing of the specification, if any, from which date the exclusive privilege accrues; the number of the corresponding specification in the United Kingdom, if stated in the application; a short statement of the nature of the invention; and a number indicating the number of sheets of drawings, if any, attached to the specification. When there is no specification an exclusive privilege was not obtained and details of the invention are not available as a rule.

For further information concerning the inventions, the specifications themselves must be consulted. For purposes of reference the registered number and year should be quoted together with the applicant's name. Under certain restrictions the original specification may be seen on payment of a fee of one rupee, at the Patent Office, 1, Council House Street, Calcutta. Printed copies of these specifications are not available, but typed copies of the specification and tracings of the drawings can be supplied by arrangement. Duplicate copies of these specifications may also be inspected at the Record Office, Egmore, Madras; the Record Office, Bombay; the Office of the Chief Secretary, Home and Political Departments, Government of

Burma, Rangoon; and the Office of the Director of Industries, United Provinces, Cawnpore.

Frequently, however, the details of the invention may be found from the corresponding U. K. specification, or from the abridgment thereof contained in the Illustrated Official Journal published by the U. K. Patent Office. But it must be noted that the corresponding specifications are not necessarily identical. The publications of the U. K. Patent Office can be seen at the Patent Office, Calcutta, the Connemara Library, Madras, and the Record Office, Bombay.

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V. LOUGH,
Controller of Patents.

July 1923.

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PART I.

Chronological list of Exclusive Privileges applied for in the years 1900 to 1904.

1900.

1. Spread, R. H. D.—Rinderpest cure.

2. Neill, S. M.—Leather dressing.

3. McCloughin, T. J.—9 April 1900. Signal lamp for railways, etc., with three coloured fixed glasses and shutter. 1.

4. Baildon, S. R.—10 Aug. 1900; U. K. 28/486/97. Punkahs mounted on a light frame and rocked by cam driven by electromotor. 1.

5. Kimman, H. J.—13 Aug. 1900; U. K. 15,740/99. Drilling or tapping machine of portable type with pneumatic motor. 2.

6. Lingard, W.—13 Aug. 1900; U. K. 15,421/99. Boots and shoes with pneumatic cushions in the heels and soles. 1.

7. Lamme, B. G., & Mallett, J. P.—8 Mar. 1900; U. K. 15,138/99. Electric bar windings for polyphase generators or induction motors. 1.

8. Lamme, B. G.—8 Mar. 1900. Electric wire or strap winding for armatures of single phase alternating current generators. 1.

9. Crehore, A. C., & Squier, G. O.—2 Nov. 1900; U. K. 23,556/98. Submarine telegraphy by sinusoidal waves, transmitter with perforated strip. 1.

10. Sherrin, J. V.—28 May 1900; U. K. 8317/99. Paints, varnishes, drying oils, wool washes, insecticides, etc., prepared from mixtures of linseed oil, gums, driers, resins and petroleum.

11. Roberts, R. G. S.—8 June 1900. Well covers made of wrought iron. 1.

12. Davis, H. P., & Wright, G.—15 Feb. 1900; U. K. 14,907/99. Electric overload magnetic cut out with auxiliary infusible contacts. 1.

13. Davis, H. P.—15 Feb. 1900; U. K. 14,998/99. Electric enclosed fusible cut outs. 1.

14. Davis, H. P., & Conrad, F.—15 Feb. 1900; U. K. 21,810/99. Electric current meters for use as ampere or volt-meters. 1.

15. Shirreff, W.—Sugarcane mills with rollers cast on squared spindles and with gearing above the rollers. 1.

16. Reynolds, P.—Piano pegs and peg boards. 1.

17. Coath, D. D.—1 May 1900. Valves for conservancy carts. 1.

18. Hoare, A.—21 June 1900. Valves with screw, cam and other gearing for distributing sewage to tanks and for other purposes, with automatic control by floats. 4.

19. Weber, L.—7 July 1900. Tiles of special form to be laid on roofs and to support ordinary roofing tiles, leaving air spaces. 5.

20. Bell, J. P., & Miss E. H. Bell.—20 Oct. 1900. Grab for dredging purposes worked by a single rope; refers to 45/86. 1.

21. Vallez, H. V., & Giraud, F.—13 Aug. 1900. Sugar in the form of powder is prepared by crystallizing in agitating apparatus. 1.

22. Davis, H. P., & Wright, G.—26 Feb. 1900; U. K. 21,083/99. Electric controllers for motors. 2.

23. Sunderland, R. H. & F., and Marshall, G.—16 June 1900; U. K. 6274/99. Acetylene generator of the carbide to water type with feed controlled by gas bell. 2.

24. Belanger, V.—16 June 1900. Spinning fly frames, details of traveller spindle, etc. 2.

25. Kimman, H. J., & Hurley, E. N.—13 Aug. 1900; U. K. 9239/99. Percussive pneumatic tools. 1.

26. Walke & Whyte.—Fuel briquettes made by compressing paddy husk through a pipe heated in a furnace. 1.

27. Ewin, Mrs.—Railway sleepers with attached chair jaws.

28. Weber, L.—Shower bath or water can with perforations. 1.

29. Stohwasser, F. J., & Winter G. B.—U. K. 24,400/99. Blanket or wrapper capable of being used as a coat or cloak for military, etc., purposes. 1.

30. Apjohn, J. H.-25 Aug. 1900. Tea packing arrangements consisting of presses, box holders, fillers, and means for transferring the boxes. 2.

31. Harry and Seaman's Patents, Ld.—15 Jan. 1902; U. K. 2896/98. Portland cement made by an automatic and continuous process involving grinding, roasting, cooling and pulverizing plant. 1.

32. Harry and Seaman's Patents, Ld.—31 July 1900; U. K. 2896A/98. Furnace of rotary type fired with coal dust, for making Portland cement. 3.

33. Harry and Seaman's Patents, Ld.—31 July 1900; U. K. 1565/99. Furnaces of rotary type for cement manufacture lined with cement material.

34. Shome, Sures Chander.—Mortar and plaster composed of coke or cinders, lime and sand.

35. Chick, W. E.—5 Sept. 1900. Rifle rack with spring bolt fastenings with safety guards and means for opening. 1.

36. Richards, I. W.—Life buoy consisting of three hollow vessels connected by rods. 1.

37. Taylor, C. H.—28 July 1900; U. K. 22,634/99. Rotary engines of the screw type and centrifugal governor. 6.

38. Ewin, W. B.—Shackle disengaging gear for ships' boats and loads generally.

39. Kelly, P. T.—Cycle support.

40 Perry, H W.-27 June 1900. Railway rails with renewable heads. 1.

41. Marathe, Ganesh Ramchandra.—21 Dec. 1900. Spinning by drawing from a revolving tube holding ginned or unginned cotton. 2.

42. Møller, J. J.—28 July 1900; U. K. 24,801/99. Vessels with liquid sealed lids for preserving food, sterilizing surgical appliances, etc. 1.

43. Linotype Co.—11 Sept. 1900; U. K. 1273/98. Linotype matrices. 1.

44. Linotype Co.—11 Sept. 1900; U. K. 2904/98. Linotype melting pots, heated electrically. 1.

45. Linotype Co.—11 Sept. 1900; U. K. 8228/98. Linotype machines, details of assembling, justifying and distributing, etc., parts. 5.

46. Linotype Co.—11 Sept. 1900; U. K. 8722/98. Linotype italic matrices. 1.

47. Linotype Co.—11 Sept. 1900; U. K. 11,033/98. Linotype matrices. 1.

48. Linotype Co.—11 Sept. 1900; U. K. 11,615/98. Linotype melting pot feed. 1.

49. Linotype Co.—11 Sept. 1900; U. K. 15,923/98. Linotype mould mechanism. 3.

50. Baumgarten, D. S.—23 Mar. 1900; U. K. 15,396/98. Acetylene generator of the carbide to water type with feed controlled by the gas bell. 2.

51. Buck, H. A.—21 Mar. 1900; U. K. 2676/99. Steam engines are supplied with highly heated water from an ordinary boiler, the water generating steam in the engine itself. 3.

52. Buck, H. A.—21 Mar. 1900; U. K. 2955/99. Rotary engines of the annular Chamber type. 3.

53. Wright, G.—15 Mar. 1900; U. K. 21,082/99. Electric circuit breakers with toggle action and knife edge bearings. 1.

54. Wright, G., & Aalborg, C.—15 Mar. 1900; U. K. 15,139/99. Electromagnetic cut outs with toggle connections and spark reducing arrangements. 1.

55. Lamme, B. G.—15 Mar. 1900; U. K. 25,420/99. Electromotors of alternating current induction type with cooling arrangements. 1.

56. Wright, G., & Aalborg, C.—15 Mar. 1900; U. K. 14,997/99. Electric switches for heavy currents with toggle operation. 1.

57. McGregor, E.—11 Sept. 1900. Dredging or excavating apparatus of the wire ropeway type. 5.

58. Hoffmann, B.—7 Sept. 1900; U. K. 22,622/98. Glycerine with or without other solvents used in electrolytic deposition of various metals.

59. Godward, E. R.—25 Aug. 1900. Pins and hairpins with coiled shanks which can rotate in their heads. 1.

60. Rogè, G. S.—Mould for making pipes from dry or wet concrete mixtures. 1.

61. Ross, J., & Cairney, W. D.—28 Aug. 1900; U. K. 23,442/99. Explosive containing potassium chlorate and charcoal, coated with paraffin wax and vaseline; manganese oxide may be added.

62. Darling's Patent Automatic Coupling, Ld.—31 July 1900; U. K. 9378/99. Railway vehicle couplings of automatic type. 2.

63. Tropenas, A.—28 July 1900; U. K. 8125/99. Iron and steel manufacture in a combined open hearth and converter furnace. 3.

64. DePenning, G. A.—18 Sept. 1900. Linotype machine details. 12.

65. Jackson, M. C., McDonough, J., & Clark, A. J.—19 April 1900. Rock drills of percussive type driven by electromotor and flexible shaft. 2.

66. Sarviy, A. Subramanya.—Plough with several tines on a triangular frame. 1.

67. Elmore, F. E.—6 June 1900; U. K. 21,948/98. Ore treatment by oil process for separating metallic constituents. 1.

68. Kimman, H. J.—7 Sept. 1900; U. K. 23,186/99. Pneumatic riveting machine. 1.

69. Beyts, G. F.—3 April 1900. Tent folding table attached to the pole. 1.

70. Sandow, E.—31 July 1900; U. K. 17,855/98. Dumb-bells with expanding springs. 1.

71. Schiefner, T. E.—31 July 1900; U. K. 7688/98. Mercerizing yarn by dipping the reel or winding the yarn through the mercerizing bath washing and drying.

72. Girling, H. M.—11 July 1900. Tea rolling machine of Jackson's type with open top frame. 4.

73. Macbeth, Mrs. R.—17 Nov. 1900. Douche stand, portable, for obstetric purposes. 1.

74. Mydial Singh.—Water lift or chain pump driven by hand cranks and gearing. 1.

75. Taylor, A., & Brooke, W. and N.—13 June 1900; U. K. 11,170/98. Moulding press of hydraulic type for making slabs from cement and crushed material. 4.

76. Jackson, W.—24 Sept. 1900; U. K. 1557/00. Tea, coffee and other materials are divided by a roller or roller and breast mill with fluted or toothed surfaces. 1.

77. Baday Sahib and Co.—Agricultural plough of light construction with steel share. 1.

78. Baday Sahib and Co.—Agricultural plough share of steel. 1.

79. Baday Sahib and Co.—Agricultural plough share of steel. 1.

80. Bowack, J.—23 Nov. 1900; U. K. 19,107/99. Tobacco pipes with longitudinally divided stem to aid in cleaning. 1.

81. Brebner, A.—23 June 1900; U. K. 18,207/99. Light-houses and signal lamps with subdivided eclipsing screens. 3.

82. Beyts, G. F.—25 Oct. 1900. Lock fastenings for railway wagon doors and other purposes with a sinuous passage entered by a flexible key. 4.

83. Crehore, A. C., & Squier, G. O.—31 July 1900; U. K. 4931/99. Electric currents of semi-cyclic or approximately sine wave intermittent form are generated and used for telegraphic, testing and other purposes. 5.

84. Thompson, R. W.—22 Aug. 1900. Clinometer consisting of a hanging plate with sighting lines. 1.

85. Hassett, J.—Lubricators, for moving bearings on locomotives, etc., of the oil cup type with valve regulators. 6.

86. Dey, H. N.—Waterproofing wood, etc., by the juice of the gab fruit.

87. Stevens, C. W.—9 Jan. 1901; U. K. 9816/99. Artificial stone blocks or tiles of various forms are moulded by a dry or wet process in sand or similar moulds. 2.

88. Gillette Roller Bearing Co.—29 May 1900. Bearings of roller type with dust proof fittings. 1.

89. Hughes, E. W. M.—22 Aug. 1900; U. K. 23,490/99. Railway axle boxes are made from one piece of wrought iron by pressing and drawing operations. 1.

90. Robertson, G. R.—28 Aug. 1900. Bale tie fastenings consisting of tongues and holes in the hoop iron ends. 1.

91. Lombard-Gerin, L.—17 July 1900; U. K. 24,910/99. Electric traction trolley with self-propelling attachments. 2.

92. Lee, C. E.—7 May 1900; U. K. 13,732/99. Electric storage batteries with negative element consisting of a strip formed into cylindrical cells around positive elements. 1.

93. Da Cruz, P.—Life-saving apparatus.

94. Richards, I. W.—Hose coupling of bayonet joint type. 1.

95. Jones, G. S.—30 Jan. 1901. Latrine plate and form of enclosure. 1.

96. Ernsthausen, Ld.—2 Aug. 1900. Indigo manufacture. The plant is steeped and fermented twice without air contact by displacing the first liquor with fresh water, Jeyes fluid, nitre sugar or glucose and alkalies are used in the water; mercury perchloride is added to the fecula. Refers to 213/99.

97. Davy, W. J., & Milne, C. W.—20 Oct. 1900. Electric arc lamps of enclosed type. 3.

98. Auldjo, L. C.—15 Aug. 1900. Heat cycle for steam engine and boiler plant involving return of waste heat from the condenser to the boiler furnace. 4.

99. Macgillivray, J. W., & Hobson, H. A.—15 Aug. 1900; U. K. 48/00. Beer, alcoholic or otherwise, is made from a specially concentrated hopped wort.

100. Elliot, L. A. S.—10 Aug. 1900; U. K. 27,102/98. Furnaces for steam generators with fittings for supplying steam and liquid fuel to supplement solid fuel. 3.

101. Worsley, G. & A. E., & Cree, F.—28 Aug. 1900; U. K. 10,282/99. Sewing machine lock stitch, needle, thread, and feed mechanism. 2.

102. Worsley, G. & A. E., & Cree, F.—28 Aug. 1900; U. K. 10,281/99. Winding long cylindrical cops suitable for lock stitch sewing machines. 1.

103. Elkin, W.—26 Oct. 1900. Lifting dogs for cranes. 1.

104. Martin, W.—22 Nov. 1900. Salt is crushed and purified by screw and wire gauge conveyors and jets or baths of concentrated brine. 1.

105. Herold, C.—23 May 1900; U. K. 23,646/99. Looms of circular type with special shuttle drive and beating-up motions. 3.

106. DeWitt, E. F.—9 Jan. 1901. **Sand boxes for locomotives and other vehicles.** 1.

107. Brollier, J. F., and Marius, E.—22 June 1900; U. K. 10,878/99. **Explosion engines with means for governing speed by reducing the charge.** 2.

108. Brown, S. G.—11 Oct. 1900; U. K. 1434/99. **Telegraph relay, recording and receiving apparatus for submarine work.** 5.

109. Davey, G. H.—24 Sept. 1900. **Belting made from coir, woven with a double shuttle, with leather or skin edgings or selvages, etc., and dressed with tar or pitch.**

110. Cooper, W.—19 July 1900. **Table with revolving top for lithograph stores.** 1.

111. Perry, H. W.—17 May 1900. **Water lift of the picottah type with one or more counterbalance levers and simple or multiple pulleys.** 4.

112. Spühl, H.—4 Sept. 1900. **Punkah hydraulic motor of reciprocating type with distributing valve worked from the punkah.** 1.

113. Spühl, H.—4 Sept. 1900. **Punkah electromotor of reciprocating type with switch operated from punkah.** 1.

114. International Fibre Syndicate, & Dear, C. J.—22 Jan. 1901; U. K. 6418/99. **Fibre breaking and scutching machinery.** 2.

115. Koeck, M.—14 Sept. 1900. **Fabric composed of grass rope or similar material bent backwards and forwards and connected with interwoven strands or threads.** 1.

116. Lichtenberg-Madsen, D.—4 Sept. 1900; U. K. 25,519/99. **Cliches, stamps and other printing surfaces made of celluloid.**

117. Simon & Co., A.—**Boot and garter combined.** 1.

118. Phillips, H. A. P.—15 Oct. 1900. **Acetylene gas generator of the water to carbide type, controlled by the gas bell.** 1.

119. Price, A. B.—13 Dec. 1900. **Centering for arched work consisting of adjustably curved metal sheets with supports.** 1.

120. Rote, C. V., Blickenderfer, R., & Holman, J. W.—4 Sept. 1900. **Railway vehicle brakes with blocks acting on the wheels and on the rails.** 5.

121. Marles, H., & Butt, G. W.—12 July 1900; U. K. 12,395/99. **Wood carving machines.** 4.

122. Marsland, J. J.—**Ceilings and floorings laid on centerings such as in 119/00 by first laying the plaster, then concrete, and then the flooring material.**

123. Harrelson, J. W.—23 Nov. 1900. **Spark arresters consisting of conical baffles attached to a smoke stack.** 1.

124. Electric Fog Signal Syndicate.—6 Dec. 1900; U. K. 23,410/98. **Railway signalling, electrically controlled fog signalling apparatus.** 2.

125. Simpson & Co., J.—13 Dec. 1900; U. K. 22,164/98. **Cupola furnace linings made of hollow cast iron blocks.** 2.

126. Olsen, F. J., & Whitemore, E. H.—13 Dec. 1900. **Filter consisting of cylindrical vessels with partitions filled with charcoal, lime granite, etc., and felt strainers.** 1.

127. Simpson & Co., J.—13 Dec. 1900; U. K. 13,874/99. Cupola furnace linings made of hollow cast iron blocks. 1.

128. Dennett, R. J.—Fan with four blades used instead of punkahs.

129. Froret, W. A., & Lewis, H. S.—22 Nov. 1900; U. K. 3795/00. Typewriters with shiftable type for cryptographic writing. 4.

130. Secco Films (British and Colonial), Ld.—15 June 1900; U. K. 24,750/98. Photographic films with removable paper backings.

131. Stohwasser, F. J., & Winter, G. B.—25 July 1900; U. K. 6795/99. Leggings or gaiters with double strap fastenings. 1.

132. Stohwasser, F. J., & Winter, G. B.—23 July 1900; U. K. 24,595/98. Leggings and gaiters with strap fastenings. 1.

133. Naylor, W.—27 Mar. 1901. Railway rail joint with bolt secured by cap pressed on to dovetail end. 1.

134. Acheson, E. G.—13 Nov. 1900; U. K. 3215/00. Graphite is prepared from carbonaceous materials in electric furnaces.

135. Cotton Seed Oil Syndicate.—13 Nov. 1900. Cotton seed treatment by processes of crushing and sifting to produce meal and a balled cotton product. 4.

136. Gresham, J. & F. J.—13 Nov. 1900; U. K. 10,593/99. Injectors for combined lifting and forcing with overflow arrangements. 2.

137. Freystadtler, E. R. von.—13 Nov. 1900; U. K. 4693/00. Seat or chair and table combined and convertible into a travelling trunk. 1.

138. Clarkson, G. H.—23 Mar. 1901. Railway electric block signalling instruments with recording arrangements, combined with telephones. Refers to 234/97. 1.

139. Schoen, C. T.—6 Nov. 1900; U. K. 7089/00. Railway hopper wagon construction and door operating gear. 6.

140. Schoen, C. T.—6 Nov. 1900; U. K. 7088/00. Railway vehicles of gondola or flat bottom types constructed of pressed steel without side beams. 6.

141. Schoen, C. T., & Hansen, J. M.—1 Dec. 1900; U. K. 7087/00. Railway hopper wagon construction and door operating gear. 8.

142. Clarkson, T., & Clarkson and Capel Steam Car Syndicate.—15 June 1900. Radiator or cooler and condenser, applicable for motor cars, consisting of wire covered tubes. 4.

143. Hanneborg, O. B. H.—15 June 1900; U. K. 1822/00. Sunlight and sun's heat are utilised by arrangements of lenses, mirrors and tubes in buildings, mines, ships, etc. 2.

144. Goode, F. W.—26 June 1900. Clip fastening of split T form for belts, bale ties, roofing, etc. 2.

145. Pneumatic Railway Signal Co.—3 Aug. 1900; U. K. 183/00. Railway switch and signal pneumatic working and interlocking apparatus. 8.

146. Wheldon, T.—2 July 1900. Rifle or revolver attachment for use in cutting wire entanglements. 1.

147. Dobson, C. A.—Rein holder for riders.

148. O'Sullivan, C. W.—Scrubber for grooming horses and cattle.

149. Phillips, H. A. P.—Acetylene generator with carbide held in the top of the gas-holder. 1.

150. Dhar, J. L., & Dass, K. C.—18 Dec. 1900. Aërating device for charging single bottles. 1.

151. Otto, E. C. F., & Otto, E. C. F.—6 Dec. 1900; U. K. 19,176/99. Brake mechanism for vehicles, etc., in which a jointed band or chain is expanded against an inner rim. 3.

152. Muirhead, A.—14 Dec. 1900. Telegraph transmission, reception and retransmission arrangements for submarine work. Refers to 191/99. 8.

153. Cooley, J. F., & Pennie, J. C.—11 July 1900; U. K. 6385/00. Distilling and concentrating liquids such as collodion solutions and forming filaments by electric means for heating the sprayed, etc., liquid. 2.

154. Secco Films (British and Colonial), Ld.—Photographic films.

155. Dessole, E. L.—15 June 1900. Electroplating metal with copper in a hot bath with means for circulating the electrolyte. 1.

156. Roy, S. C.—27 Oct. 1900. Lamp for burning kerosene without a chimney; lantern of triangular form. 1.

157. Clarkson, T., & Clarkson and Capel Steam Car Syndicate.—16 June 1900; U. K. 18,679/98. Gas or vapour atmospheric burners. 14.

158. Watson, T. T.—Flushing device for economising liquid.

159. Schou, C. V.—27 Nov. 1900; U. K. 6576/00. Pipe joint or stopper of screwed type with a soft metal collar. 1.

160. Timmis, I. A.—27 Nov. 1900; U. K. 15,407/98. Food preparations for soups, etc., extracted from meat, fish, vegetable, etc., the residue being used as poultry food.

161. Elworthy, H. S.—11 July 1900; U. K. 14,072/99. Acetylene generator and storage vessel of the water to carbide type. 1.

162. Coath, D. D.—4 Dec 1900. Artesian wells are sunk with the aid of a water jet process and pumping is conducted so as to leave gravel outside the lining tube, removing the sand 2.

163. Clarkson, T., & Clarkson and Capel Steam Car Syndicate.—16 June 1900; U. K. 5775/99. Steam generators of the instantaneous tubular type with feed water heater and super-heater. 11.

164. Syed Hozoor Meerza.—Casting plates, bowls, etc., in iron moulds.

165. Compton, M. D.—19 July 1900; U. K. 4169/00. Tidal energy is utilized by impounding reservoirs with arrangements of gates and motors. 2.

166. Anders, G. L., & Wilson, A. J.—19 June 1900; U. K. 20,972/98. Telephone transmitters and receivers combined with electric bell pushes. 4.

167. Lundin, A. G.—11 July 1900. Steel castings containing silicon, manganese and aluminium.

168. Lundin, A. G.—11 July 1900. Steel castings as in 167 above with addition of copper.

169. Cave, R. H.—Indigo manufacture. Acids and alkalies are used with precaution to prevent corrosion of tanks, boilers, etc.

170. Pudumjee, B. D.—19 Jan. 1901. Lamps for carriages, etc., with arrangements for burning oil, candles or acetylene. 2.

171. Mackenzie, T.—25 Aug. 1900. Bedstead with trussed folding frame. 3.

172. Harrington, B. R.—7 Jan. 1901. Destructor furnace with cell and inclined grate, with or without smoke consuming chambers. 1.

173. MacDonald, D. J.—27 Nov. 1900; U. K. 7763/99. Looms without shuttles, the looped weft being drawn in by needles. 2.

174. Sharland, W. J.—12 Jan. 1901. Railway wagon self-closing door lock or catch with indicator. 1.

175. Caudenburg, C. A. C. de.—20 Dec. 1900. Paving material consisting of asphalt treated with rubber solution.

176. Grant, A. E.—25 Aug. 1900. Refrigerator or ice safe with sliding door, ventilating grids in partitions, drawer for ice, bottle compartment, etc. 5.

177. Wedderburn, D.—29 Aug. 1900. Locomotive and similar fire boxes with stays in the form of a link. 1.

178. Moir, W.—Cock with self-closing spring valve lifted by crank. 1.

179. Schafer, J. B.—21 Dec. 1900; U. K. 11,443/98. Refrigerators or ice safes and freezers. 1.

180. Hatch, T. B.—28 June 1900. Electric propellor and motor combined with rudder for boats, motor and resistance details. 3.

181. Hewer, C. H.—6 Dec. 1900; U. K. 13,153/99. Railway vehicle couplings of automatic and also non-automatic type. 2.

182. Rimoldi, A. P., & Rand, J. D.—18 July 1900. Bottles with ball stoppers and valve devices for preventing refilling. 1.

183. Watson, G., & F. L.—22 Aug. 1900; U. K. 16,600/98. Steam generator furnaces with hollow covers and steam jets for supplying heated air for combustion and smoke consumption. 2.

184. Couston, J., & Finlayson, J.—5 Dec. 1900. Pipe caulking machine for use with lead joints, also applicable as for cutting pipes. 2.

185. Huson's Safety Acetylene Syndicate.—5 Dec. 1900; U. K. 13,145/99. Acetylene generators in which carbide is fed with water. 1.

186. West, D. K.—18 Sept. 1900. Bale tie fastener with slotted plate holding the bent over ends. 1.

187. Saha, R. N.—14 Dec. 1900. Stylograph and fountain pens. 1.

188. Beckett, W. T. C., & Marchant, C. A.—18 Dec. 1900. Dredger of the clam shell or grab bucket type. 3.

189. Hamilton, A. M.—14 Dec. 1900. Filter of portable or pocket type consisting of a carbon block in a casing with suction tubes. 1.

190. Hussain, A.—3 Aug. 1900. Hat boxes or trunks with supports for ladies' hats. 1.

191. Cassel, E. F.—11 July 1900; U. K. 7092/00. Governor for water wheels or turbines of the jet driven type. 2.

192. DeCourcy, E. J., & Crawford, R.—10 April 1901; U. K. 27,023/98. Breaking and scutching apparatus for flax with series of fluted rollers having an oscillating rotary motion. 2.

193. DeCourcy, E. J., & Crawford, R.—10 April 1901; U. K. 13,945/99. Scutching apparatus for flax with rotating beaters having toothed blades. 1.

194. Sargent, W. D.—25 Aug. 1900; U. K. 3376/00. Brake shoes of cast iron with chilled ends. 1.

195. Stephens, W. C.—29 Dec. 1900; U. K. 7689/00. Rock drills of percussive type with soft metal bushings in the valve passages. 1.

196. Mundul, N. N., & Biswas, K.—2 Jan. 1901. Harmonicas with three sets of reeds, stops and reservoir bellows. 1.

197. Browne, R. J., & Leslie, J. L.—Punkahs driven by chain gearing and polarized magnetic clutch with reversing switch operated by the oscillating motion. 1. Refers to 226/95.

198. Tripler, C. E.—20 Aug. 1900. Air liquefying apparatus, construction of counter current interchanger and expansion valve. 4.

199. Ewin, W. B.—Drinking bottle.

200. Dutton, F. H.—7 Jan. 1901. Railway point and signal mechanic interlocking arrangements for facing points on single rail lines. 2.

201. Dürr, L.—14 Dec. 1900; U. K. 18,840/99. Furnace oil fuel fittings with two burners having separate vaporizers. 1.

202. Ghose, B. N.—Rice hulling dinkis, tilt hammers, etc., driven by cams bearing against friction bowls on the helve. 1.

203. Cerebotani, L.—9 Jan. 1901; U. K. 10,040/99. Telegraphic printing receivers. 2.

204. Bennett, J. F., & Moorwood, T. P. & H. S.—14 Dec. 1900; U K. 3985/00. Oil engine carburettors for heavy oils. 1.

205. Lavollay, J. H., & Bourgoin, G. E.—17 July 1900. Sugar solutions are decolorized by electrolysis in presence of manganates, followed by precipitation with barium or other carbonate.

206. Allison, S. B.—15 Jan. 1901. Decorticating and scutching machinery with belts, rollers, beaters and combs. 3.

207. Gray, R. K.—23 July 1900; U. K. 5356/00. Electric cables insulated by alternate hard and soft layers. 1.

208. Buchanan, J. Y.—23 July 1900; U. K. 22,102/99. Electric cables insulated by alternate layers of guttapercha and a mixture of indiarubber and ozokerite. 1.

209. Coventry, B.—Indigo manufacture. The plant in cages, etc., is steeped for short periods several times in hot water to which acids, enzymes or bacteria and oxidizers may be added; the liquor is boiled with similar additions and settled.

210. Powell, A. W.—24 June 1901; U. K. 24,969/99. Brushes with reservoir attachments for painting, boot blacking, etc. 2.

211. Allpress, W. A.—24 June 1901. Harness, detachable link for traces, pole chains, etc. 1.

212. Raif. M.—10 Sept. 1900; U. K. 6239/99. Fezes of straw lined with leather, etc. 1.

213. McAneny, M., & Mason, J. T.—25 Aug. 1900. Cach registering, indicating and change giving machine. 5.

214. Stuart-William, W. A.—Lock device for securing cocks and openings of oil cans and other receptacles. 1.

215. Neilsen, L. C.—22 Jan. 1901; U. K. 25,260/99. Lamps with incandescent mantles, burning oil from a wick, control of the air supply. 1.

216. Price, A. B., & Marsland, J. J.—27 March 1901. Roofing tiles or slabs with lips and ridges, laid with caulked joints. 1.

217. Schrottky, E. C.—Rice is malted by germinating the cleaned grain in closed vessels with alternate steeping in water and draining.

218. Vandyke, F. R.—28 Feb. 1901. Photozincography by coating the plate, printing, developing, inking and removing the coating so as to leave a positive image in ink lines on the plate.

219. Regan, J. F.—12 Feb. 1901. Brake for two or four-wheeled road vehicles acting on the wheel hubs. 1.

220. Boyer, F.—24 Jan. 1901; U. K. 7990/00. Looms for making knot stitch carpets. 6.

221. Hawliczek, J. L.—14 Feb. 1901; U. K. 15,907/98. Acetone is made from wood or other organic material by causing the distillation products to come in contact with alkaline earths, such as lime, or with metal compounds which leave oxides or carbonates on heating. The still is described. 1.

222. Brew, J.—5 Feb. 1901. Lock and label holder combined for railway wagons, etc. 1.

223. Churcher, E. J.—16 Feb. 1901. Wells are lined with earthenware slabs grooved, etc., for keying with iron rods. 1.

224. Futehally & Co., N.—22 Jan. 1901. Decorticating aloe and other fibre by weighted combs and knives, the leaves being held by pincers which are drawn by ropes and gearing. 2.

225. Gahagan, R. H.—18 Jan. 1901. Waste preventing tap with valve lifted by revolving ball governor. 1.

226. Slatter, W. A.—Punkah worked by foot lever under a table. 1.

227. Dunkin, F. S.—15 Jan. 1901; U. K. 2493/00. Game or puzzle with movable pieces to be placed in certain positions. 1.

228. Perman, W. F.—24 Sept. 1900. Tea rolling machine with concentric table and central cone revolving in opposite directions in the box. 3.

229. Modelliar, R. C. D.—Composition of asphalt, pitch, rubber, sulphur, red lead, and sand for use as a cement or waterproofing or surfacing material for floors, etc.

230. Cunliffe, J. H., Law, J., Hanson, J., Butterworth, J. & S., Makin, J., and Pilling, J. H.—14 Dec. 1900; U. K. 9400/00. Looms for weaving bordered fabrics such as dhoties, sarees, etc., with the border connected to the body by linking threads. 2.

231. Braby, H.—8 Aug. 1900; U. K. 8417/00. Steam generators of the instantaneous or flash type. 4.

232. Cotton Seed Oil Syndicate.—5 Dec. 1900; U. K. 6816/00. Drying chamber and conveyor for treating cotton, etc., cake. 1.

233. Germot, A.—8 Aug. 1900; U. K. 23,014/99. Lead sulphide ores are treated with an air blast to recover lead and silver.

234. Browne, R. J.—Magnetic clutch for punkah pulling. 1. Refers to 226/95 and 197/00.

235. Hart, F. B.—14 Feb. 1901; U. K. 17,664/99. Railway rail lap or scarf joints. 1.

236. Dhanjibhoy, C.—13 Feb. 1901. Tongas specially adapted for ambulance purposes. 3.

237. Thulasi Dass K.—16 Feb. 1901. Water lift with self-emptying and filling counterbalanced valved buckets worked by whim and horizontal gearing on ball bearings. 3.

238. Thulasi Dass, K.—Water lift.

239. Gahagan, R. H.—28 Jan. 1901. Planing machine with automatic reversing gear. 1.

240. Atkins, G. J.—22 Jan. 1901; U. K. 22,425/99. Acetylene is generated from mixtures of the carbide with other materials containing water of hydration or combination. Bye products such as soap, starch, etc., may be recovered from the waste. 1.

241. Kielberg, C. J.—22 Jan. 1901; U. K. 18,353/99. Cement, etc., pipes cast in a mould with a movable core. 3.

242. Gahagan, R. H.—17 Jan. 1901. Waste preventing tap with valve lifted by revolving fan governor. 1.

243. Jost, C., & Pell, A.—1 Feb. 1901. Pump with concentric cylinders and filtering candle placed in the handle. 1.

244. Fraser, J. & J. G., and Walker, H.—12 Sept. 1900; U. K. 3234/00. Spinning stop motion and rove holder. 8.

245. Wall, B. P.—15 March 1901. Railway points with cottar and padlock attachment for locking. 2.

246. Coomana, M. F.—Oil vapour burners with screw plug to enable carbon to be removed. 1.

247. Panitschek, H., & Herold, C.—24 Sept. 1900; U. K. 7682/00. Looms, beating up arrangements for weft. 3.

248. Das, M. S.—15 Sept. 1900. Automatic *golabbas* combined with *attar dan* and *pandan* for holding and delivering pan and scent or water. 1.

249. Thornycroft, J. E., & Thornycroft Steam Wagon Co.—11 Oct. 1900; U. K. 6828/99. Motor road vehicles, construction of steering and driving gear and water tube boiler. 4.

250. Hoskins, G. J.—5 Dec. 1900. Metal rolling machine for upsetting the edges of plate used in the manufacture of pipe in which the joint is made by an H section bar. 2.

251. Hoskins, G. J.—5 Dec. 1900. Metal pipe making machinery for closing the H section junction bar over the bulbed edges of the plate. 2.

252. Voelker, W. L.—14 Sept. 1900; U. K. 20,346/99. Electric incandescent lamps with U-shaped bulb. 1.

253. Ratnagur, S. M.—Waste preventing tap in which the valve is closed by a tilting vessel filled by a pipe conveying a fraction of the flow. 1.

254. British Westinghouse Electric & Mfg. Co.—18 Sept. 1900; U. K. 15,910/99. Gas engines with gas and air inlet, double beat valves controlled by a governor. 1.

255. Morel, L. A.—1 Feb. 1901; U. K. 9283/00. Gluten, extracted from cereals, is frozen so that it can be pulverized or made into thin plates preliminary to drying.

256. Hazewinkel, J. J.—Indigo manufacture. The plant in baskets, etc., is repeatedly steeped in boiling water to destroy the enzyme and the liquor is chemically oxidized.

257. Hab & Son.—17 Jan. 1901. Padlock of lever type with screwed cover secured by the hasp. 1.

258. Dhanjibhoy, C.—13 Feb. 1901. Saddle for draught or driving purpose with metal arch carrying loops for the yoke. 1.

259. Lyon, H., & Talbot-Crosbie, J. B.—1 Feb. 1901; U. K. 16,594/98. Refrigerating apparatus of the ammonia absorption type. 3.

260. Chakravarti, K. N.—27 Feb. 1901. Printing press with roller and racks. 1.

261. Hewitt, P. C.—31 Oct. 1900; U. K. 11,562/00. Electric mercury vapour or similar lamps. 2.

262. Petersen, A.—5 Dec. 1900; U. K. 7613/00. Lock with the bolt operated by a pinion and rack like key. 1.

263. Voelker, W. L.—14 Sep. 1900; U. K. 6149/99. Electric incandescent filaments made of carbides of titanium, thorium and uranium, preparation of the carbides and electric furnace for heating. 1.

264. Knowles, A. J.—14 Sept. 1900. Oil engine drop carburettor, regulating and mixing appliances. 2.

265. Simon, J. M.—Tanning processes involving successive use of stronger solutions.

266. Hodgkinson, J.—27 Feb. 1901. Punkah pulling, arrangement of ropes with multiplying pulleys to increase the throw. 1.

267. Hodgkinson, J.—27 Feb. 1901. Punkah suspension with rope and pulleys to provide for adjustment in height. 1.

268. Cleghorn, J. P.—26 Feb. 1901. Air drying apparatus with a revolving drum containing lime. 1.

269. Cleghorn, J. P.—26 Feb. 1901. Food and other materials containing albumen are preserved by heating to temperatures below 140°F. sufficiently long to coagulate the albumen. The process may be combined with salting, injecting disinfectants, etc., and may be applied to corpses, wood, etc.

270. Brown, J. H.—20 March 1901; U. K. 12,442/00. Cartridges and explosive charges containing water to reduce temperature and erosion. 1.

271. Lowden, J.—26 Feb. 1901. Railway vehicle buffer and automatic coupling. 4.

272. Cie Gén. des Nouvelles Inventions, C. Tellier.—19 Feb. 1901; U. K. 7425/00. Refrigerating machinery of the ammonia absorption type, details of pumps, condensers, evaporators, ice tanks and moulds, lifts, etc. 9.

273. Cie Gén. des Nouvelles Inventions, C. Tellier.—Specification filed—19 Feb. 1901; U. K. 9378/00. Refrigerating machinery of the cold air type; also a furnace for heating air and an air operated water lift for use therewith. 2.

274. Ewin, W. B.—Tea blending machine with arrangement of bins in a circle and hopper to one or both of which rotary motion is given. Refers to 55/99. 1.

275. Hurst, D.—17 Nov. 1900; U. K. 16,349/99. Pipe joints with screw coupling piece for lead and other pipes. 1.

276. Coath, D. D.—4 Dec. 1900. Water lift of the Pohpe air type with the column started in sections. 1.

277. Crehore, A. C., & Squier, G. O.—4 Jan. 1901; U. K. 17,722/99. Telegraphic apparatus with tape punched to provide for earthing at desired intervals. 1.

278. Grenier Art Co.—6 March 1901; U. K. 13,317/00. Photography in colour on fabric.

279. British Westinghouse Electric & Mfg. Co.—6 March 1901; U. K. 3834/00. Electric generators and motors, arrangement of armature windings and commutators. 1.

280. Swan, P. S.—4 May 1901. (Specification amended.) Roof construction with cantilevers, steel joists as columns, and sloped pucca roofs 1.

281. Bowsing, F. T. N. Spratt.—Punkah suspension.

282. Sayer, R. C.—26 Feb. 1901. Electrically heated boiler with automatic control of current by the steam pressure. 1.

283. Tyer, E.—20 Oct. 1900; U. K. 23/311/98. Railway staff or tablet instrument arranged for absolute or permissive working. 2.

284. Mutti, M.—19 Dec. 1900. Railway wagon door lock or bolt which can only be removed when the wagon is over a pit. 1.

285. Spencer, Miss E. C.—2 May 1901. Cover, holding lime, to fit over cigar, etc., boxes to keep the contents dry. 1.

286. Lane, H.—28 Sept. 1900; U. K. 25,281/99. Electric railways on the closed conduit system containing a flexible conductor. 1.

287. Asari, I. A.—Commode, with a number of pans carried by an axis for successive presentation and discharge and disinfection and moved on opening or closing the lid. 2.

288. Washington Licht-Ges.—6 March 1901. Lamp of the oil vapour incandescent type and special vaporiser. 4.

289. Hollub, L. J. P., & Mignal, H.—6 March 1901; U. K. 7100/00. Electric incandescent lamp fixing device. 1.

290. Taylor, W. O.—6 March 1901. Rotary engines of the annular chamber type. 2.

291. Voelker, W. L.—27 Nov. 1900; U. K. 11,344/00. Electric incandescent filaments made of carbide of uranium and other metals and arc furnace for use in their preparation. 1.

292. Severy, M. L., & Heath, G. S.—21 Feb. 1901. Printing surface or blanket with numerous independent yielding surfaces so that overlaying may be dispensed with. 2.

293. Severy, M. L.—21 Feb. 1901. Printing surface of cylindrical form. 2.

294. Severy, M. L.—21 Feb. 1901. Printing surface with resilience produced by fluid pressure. 3.

295. Severy, M. L.—21 Feb. 1901. Printing surface with numerous small hard areas, mounted resiliently. 3.

296. Pearse, T. H.—12 March 1901. Cotton gins and wool burrers of the roller type. 5.

297. Folger, F. D.—Indigo manufacture. The fecula is further oxidised after removal of the seeth water.

298. Naylor, W.—U. K. 15,088/00. Tobacco pipe arranged to burn upwards. 1.

299. Tramble, R. S.—3 Dec. 1900. Chain pumps. 1.

300. Bailey, M. M.—21 Nov. 1900. Wheels for vehicles having a hub which is movable in relation to the centre with the view of assisting or retarding motion. 2.

301. Bamber, M. K.—23 April 1901. Tea manufacture, control of supply of air steam, and carbonic acid during withering, drying, etc., and to produce green tea. 2.

302. Martin, T. A.—Indigo manufacture. Tins of sodium peroxide are placed in the beating vats.

303. Wilson, W., & Bennett, T.—6 March 1901; U. K. 8322/00. Tramcar life guard or obstruction remover. 1.

304. Faller, F. A., & Chrisholm, J. W.—28 May 1901; U. K. 9339/00. Telephone multiplex system. 2.

305. Pitt, C. R.—29 Jan. 1901. Bicycle support and umbrella holder. 1.

306. Batliboi, J. F.—24 Oct. 1900. Funnel with valve and indicator. 1.

307. Gahagan, R. H.—Waste preventing tap with two valves opened alternately by a revolving crank. 1.

308. Nagelmackers, G.—5 Aug. 1901. Railway vehicles with cooling arrangements, fans driven by draught past the vehicle, special sleeping berths, double roofing and insulating coverings. 6.

309. Weymersch, H.—20 March 1901; U. K. 15,017/99. Electric accumulator plates with pyridine or similar salts added to the paste.

310. British Westinghouse Electric and Mfg. Co.—2 April 1901. Electric alternating current induction motors to give constant torque with variable speed. 1.

311. British Westinghouse Electric and Mfg. Co.—2 April 1901. Electric distribution systems in which alternating currents are converted into direct current by rotary convertors. 1.

312. Lane, T E., Temple, G. T., & MacRae, J.—14 Dec. 1900; U. K. 4688/99. Bottles for beer, etc., with opening and stopper in the bottom and an opener for use therewith. 2.

313. Browne, R. J., & Petley, E. W.—14 Jan. 1901. Magazine rifles, construction of magazine filled with cartridges one by one. 1.

314. Stephens, W. C.—26 Feb. 1901: U. K. 12,458/00. **Lubricator or oil hole with valve for rock drills. 1.**

315. Shroff, N. F.—**Fibre extracting tongs and clamp for hand use. 2.**

316. Bivar, C. S.—Boiler, semitubular and **vertical.**

317. Juggunnath Pershad.—16 Oct. 1901. **Safes and doors with handcuff** attachment for catching thieves. 1.

318. Grenon, C.—Acetylene generator with **automatic control by the holder.** 1.

319. Mackenzie, T.—22 March 1901. **Centrifugal pump. 2.**

320. Mestry, D. F.—Cotton gin with revolving toothed feed rolls, toothed guard plates, spiral beaters on **roller and guards for beater and** leather roller. 2.

321. Mahboobalum.—Water lift with **counter-balanced buckets and hand** winch. 1.

322. Williams, A.—**Motor.**

323. Datta, P. K. & L. M.—15 April 1901. **Boat with twin hulls. 1.**

324. Brake, A.—20 March 1901: U. K. 2795/00. Drawing off or measuring liquids such as beer, syrups, water for flushing, etc. 2.

325. British Westinghouse Electric and Mfg. Co.—10 April 1901; U. K. 4387/00. Electric synchronism maintained between two or more alternating current generators, in parallel, by special arrangements of governors. 1.

326. British Westinghouse Electric and Mfg. Co.—10 April 1901. Electric three-wire distributing system with special arrangement of regulating generator. **1.**

327. British Westinghouse Electric and Mfg. Co.—20 July 1901; U. K. 22,609/99. Railway vehicles are lighted electrically by grouped lamps supplied from a three-wire system on the line. **1.**

328. Potter, W.—Urdu characters.

329. Hellich, J.—9 Nov. 1900. Spinning **machinery with a travelling cleaning** device for the cylinder shelf. 1.

330. Bailie, S. M.—4 Jan. 1901. Tea **packing machine with a shaking** table. 1.

331. Flanagan, H. T.—24 June 1901. **Railway vehicle drawbars with springs. 1.**

332. Bivar, C. S.—13 May 1901. Tea **is withered by treating the leaf with** hot or boiling water.

333. Leonard, W. B.—2 Aug. 1901. **Perpetual motor with weighted pistons** and cylinders for pneumatic operation. 1.

334. British Westinghouse Electric and Mfg. Co.—23 April 1901; U. K. 13,860/00. Electric controllers with bolw out magnets and shields. 3.

335. British Westinghouse Electric and Mfg. Co.—23 April 1901; U. K. 24,942/99. Electric brakes for rotating shafts especially for use with polyphase motors. 3.

336. British Westinghouse Electric and Mfg. Co.—23 April 1901; U. K. 25,741/99. Lightening arrestors. 1.

337. British Westinghouse Electric and Mfg. Co.—23 April 1901. Electric motor generator for supplying variable electromotive force. 1.

338. Buggé, R.—9 Nov. 1900; U. K. 13,395/00. Rice and other grain is dried in a chamber with inclined floors by heated air. 1.

339. Calmette, A.—19 Feb. 1901. Indigo manufacture by expressing the plant juice, agitating and filtering it, and then agitating or oxidising and again filtering.

340. Bellew, F. D.—3 May 1901. Railway chair with one loose jaw. 1.

341. Murray, E. F.—Gas engines.

342. Graham, F. L.—28 Dec. 1900. Penholder with nib ejector. 1.

343. Smith, D.—27 Nov. 1900. Furnace with hollow or solid baffle plates and injector forced draught for smoke consumption. 4.

344. Gresham, S. T.—Lock for railway vehicle doors with sliding bolt which may be secured by a tumbler, requiring two hands for opening. 1.

345. Das, M. S.—Peg measure made of buffalo horn. 1.

346. Longe, H.—9 Oct. 1901; U. K. 13,644/00. Soldering aluminium with an alloy of aluminium and zinc.

347. Bellow, F. D.—3 May 1901. Tea blending machine with shoots delivering at angles into a funnel which may have a helical spout. 2.

348 Degemeyer, C.—7 May 1901. Bottle casing or wrapper of corrugated paper in hinged halves. 1.

349. Moate, J. T.—4 June 1901; U. K. 14,128/00. Book with leaves notched to facilitate turning or indexing. 1.

350. Weeks, F. W.—29 Dec. 1900; U. K. 9451/00. Carbon papers with a hardened surface or coating of carbon. 1.

351. Russell, H. S.—28 Dec. 1900; U. K. 1701/00. Casks, barrels, etc., are lined with paraffin, wax, etc., with the aid of hot and cold air apparatus. 3.

352. Schmidt, M. E., & Ryan, T. J.—28 Dec. 1900; U. K. 11,116/00. Railway refrigerating cars with ammonia plant electrically driven from the axle and water cooling attachments. 2.

353. Weeks, F. W.—28 Dec. 1900; U. K. 11,596/00. Carbon paper manufacture. 10.

354. Salmond, D. M.—4 Jan. 1901. Tea rolling tables with special arrangement of curved battens. 1.

355. Winter, G. B., and Stohwasser, F. J.—21 Dec. 1900. Tent and wagon combined, the tent awning being mounted on rollers on the sides of the wagons. 2.

356. Hoare, A.—10 Jan. 1901. Punkah suspension frames and pulling arrangements worked from a central station. 5.

357. Bragge, J.—17 Dec. 1900. Railway trucks with swivelling or turntable platforms to facilitate side loading of road vehicles, etc., or at break of gauge. 1.

358. British Westinghouse Electric and Mfg. Co.—1 May 1901; U. K. 25,740/99. Electric collecting rings for alternators, motors, etc. 1.

359. British Westinghouse Electric and Mfg. Co.—1 May 1901; U. K. 814/00. Electric two-phase induction motors on polyphase distribution, arrangements of connections for control. 1.

360. British Westinghouse Electric and Mfg. Co.—1 May 1901; U. K. 1825/00. Electric armatures with additional closed windings for balancing. 1.

361. Johnston Die Press Co.—4 Jan. 1901; U. K. 14,918/99. Printing or embossing presses with means for controlling the recoil of the die. 6.

362. Johnston Die Press Co.—4 Jan. 1901; U. K. 14,820/99. Printing press inking apparatus. 3.

363. Johnston Die Press Co.—4 Jan. 1901; U. K. 14,991/99. Printing or embossing presses with means for removing superfluous ink from the die. 6.

364. Johnston Die Press Co.—4 Jan. 1901; U. K. 14,992/99. Printing or embossing presses with means for holding the paper. 5.

365. Johnston Die Press Co.—4 Jan. 1901; U. K. 14,993/99. Printing or embossing press, dies and inking arrangements. 2.

366. Johnston Die Press Co.—4 Jan. 1901; U. K. 14,994/99. Printing or embossing press mechanism. 29.

367. Kellogg, J. H.—9 Jan. 1901; U. K. 19,802/99. Cakes made from cereal food preparations. 1.

368. Simon, J. M.—Punkahs.

369. Ghose, R.—Cigar box with slide for delivering cigars singly. 1.

370. Ghosha, P. C.—8 Dec. 1900. Water boiler for domestic use with cowls for draught. 1.

371. D'Jeyses, L. M.—22 July 1901. Railway chair iron key with packing and cottar. 1.

372. Rana, R. P. H.—20 May 1901. Fibre extracting tongs and spring table grip or knife released by a lever. 1.

373. David, I. D.—Cock with float to control opening. 1.

374. Koondan Lall & Sons, M.—Weights with inscriptions. 1.

375. Shirrtliff, F.—Paddy husking machine of the vertical drum type with fixed and revolving husking vanes or surfaces. 1.

376. Tytler, F. W., & Samson, E. D.—Fibre cleaning machine for agave, etc., of the drum and curved plate type with feeding appliances. 2.

377. Seitz, E.—28 Nov. 1900. Centrifugal pumps, construction of runner and packing. 3.

378. British Westinghouse Electric and Mfg. Co.—10 May 1901; U. K. 6947/00. Electric pole pieces for dynamos, motors, etc. 1.

379. British Westinghouse Electric and Mfg. Co.—10 May 1901; U. K. 13,805/00. Electric insulators especially for telephone switch boards. 1.

380. British Westinghouse Electric and Mfg. Co.—10 May 1901; U. K. 11,610/00. Lightning arrestors. 1.

381. British Westinghouse Electric and Mfg. Co.—10 May 1901; U. K. 11,609/00. Lightning arrestors. 1.

382. British Westinghouse Electric and Mfg. Co.—10 May 1901; U. K. 6948/00. Electric windings for polyphase induction motors arranged to produce a number of poles according to the speed desired. 1.

383. British Westinghouse Electric and Mfg. Co.—10 May 1901; U. K. 10,029/00. Electric distribution with means for maintaining electromotive force constant in the branches. 1.

384. Linton, W. J.—8 May 1901; U. K. 5909/00. Air compressor on the trompe or hydraulic principle. 1.

385. Linton, W. J.—8 May 1901; U. K. 5910/00. Air compressors on the trompe or hydraulic principle. 1.

386. Marconi, G., & Marconi's Wireless Telegraph Co.—1 May 1901; U. K. 25,186/99. Wireless telegraphy, receiving instrument. 1.

387. Stanley, C.—13 July 1901; U. K. 16,073/00. Aërial machines with aërostats. 2.

388. Wood, F., & Nathan, C. O.—13 Feb. 1901; U. K. 11,289/00. Bedsteads of folding or portable type. 2.

389. Georgii, E.—11 Dec. 1900. Cigarette making machine in which tobacco is rolled and inserted in the paper tubes. 3.

390. Chapman, W.—21 Dec. 1900; U. K. 2897/00. Electric railways and tramways on a surface contact system with electro-magnetic switches. 2.

391. Hodgkinson, J.—Rifle magazine charger. 1.

392. Myatt, Mrs. B.—Douche can suspender. 1.

393. Haviland, J. & F. H., & Farmer, J.—12 Dec. 1900; U. K. 4653/99. Pneumatic elevator and dust separator for grain. 8.

394. Nicholson, A. G., & United Coffee Growers Co.—18 Feb. 1901. Can testing apparatus for canned foods, etc. 2.

395. Coxe, J. C.—3 May 1901. Centrifugal ceiling fans with wire cored or other rope gearing, stop gear, special form of blades, suspension and lubricators. 2.

396. Dannhardt, F. H., & Mailer, M.—22 Jan. 1901; U. K. 7107/00. Deep boring plant arranged to obviate withdrawal of rods when removing cores or changing tools. 4.

397. British Westinghouse Electric and Mfg. Co.—18 May 1901; U. K. 7285/00. Electric railways on a slotted conduit system, construction of conduits, conductor supports and collectors. 3.

398. British Westinghouse Electric and Mfg. Co.—18 May 1901; U. K. 9033/00. Electric windings for motors, generators, etc. 1.

399. Pease, E. L.—4 June 1901; U. K. 2327/99. Building construction with plates or sheets connected by grooved wooden or other bars. 2.

400. Wolff, G. S.—U. K. 13,357/99. Leather treatment and varnish for producing a flexible enamelled material. 1.

401. **Rutnagur, S. M.—Water waste preventing cocks of push or plug type** closed by flow of water through a bye-pass into a measuring vessel, float chamber, etc. 2.

402. Sutton, G. W.—Clippers or shears with multiple blades for pruning, cutting grass, etc. 1.

403. Sutton, G. W.—28 May 1901. Clock work mechanism for driving ceiling fans, etc. 1.

404. Wallace, J.—Joints for folding or camp furniture. 1.

405. Reid, W. F., & Velvril Co.—2 Aug. 1901; U. K. 1609/00. Spinning drawing rollers covered with a seamless tube of nitro compounds of cellulose, linolein and ricinolein.

406. Cotton Seed Oil Syndicate.—7 Dec. 1900; U. K. 17,443/00. Oils and fats are bleached by trickling over glass plates, exposed to light and heated or cooled. 1.

407. Johnson, F. C.—8 July 1901; U. K. 16,161/00. Mercerising yarn. 3.

408. Darling, J.—11 May 1901; U. K. 4078/00. Railway and other carriage sliding windows with quick threaded screw operating and holding appliances. 1.

409. Anderson, A. C., & L. S.—9 Feb. 1901. Pneumatic tyre inflator attachment for cycles, etc., with automatically driven pump whose working is controlled by the pressure. 2.

410. Philips, H. A. P.—Gas cock with bye-pass. 1.

411. Hughes, F. G.—20 March 1901. Cartridge belt or bandolier for carrying ammunition for magazine weapons. 2.

412. Spink Liquor Co.—22 April 1901. Alcoholic liquids are aged by treatment on porous material with air and condensation of the vapours.

413. Myatt, B., & Gurr, T. S.—Button fasteners for dress. 1.

414. British Westinghouse Electric and Mfg. Co.—3 June 1901; U. K. 2700/00. Electric speed and current frequency indicators. 1.

415. British Westinghouse Electric and Mfg. Co.—3 June 1901. Electric distribution from dynamos supplemented by storage batteries. 1.

416. Weeks, F. W.—29 Dec. 1900; U. K. 16,151/00. Carbon paper manufacture. 3.

417. Francis, E. E.—Race horses are weighted by weight holders on the withers. 1.

418. Jost, C.—13 May 1901. Punkahs driven by clock work mechanism. 1.

419. International Chemical Co.—7 Oct. 1901; U. K. 14,124/00. Silicides of barium, strontium and calcium are produced in the electric furnace from mixtures of silica, alkaline earths and carbon. With acids or water they yield hydrogen and hydrides of silicon.

420. Maylard, M. W.—24 June 1901; U. K. 15,493/00. Telescopic and spectroscopic device for indicating abnormal atmospheric conditions caused by gun-fire. 1.

421. Maylard, M. W.—4 June 1901; U. K. 14,284/00. Counting and time check apparatus. 1.

422. Maylard, M. W.—24 June 1901; U. K. 13,797/00. Counter for firearms. 1.

423. Perdrisat, C.—4 June 1901; U. K. 15,542/00. Coin freed apparatus for selling chocolate, postage stamps or photographs. 1.

424. Hill, E. R.—10 June 1901; U. K. 11,835/00. Electro-pneumatic control apparatus for electrically propelled vehicles, etc. 3.

425. Ljungstrom, B.—18 May 1901; U. K. 23,707/99. Rotary steam engines with two cylinders revolving about a central axis in a curved endless track. 7.

426. Sutton, G. W.—19 June 1901. Tea drying or withering apparatus with concentric revolving cylinders, air supply and steam or electric heating. 2.

427. Quinn, J., Turland, J. H., & Archer, W. G.—10 June 1901. Harvesting and stripping machine for grain. 2.

428. Horgan, C. D., & Harnan, J.—17 May 1901; U. K. 18,482/99. Railway vehicle couplings of the automatic type. 2.

429. Ham, F. G. S.—19 Feb. 1901; U. K. 698/00. Water waste preventer or measurer with chamber containing a loose piston and filled alternately on either side. 4.

430. Peck, F. S.—28 May 1901. Entrenching tool with pick and kodali blade. 1.

431. Marconi's Wireless Telegraph Co.—18 June 1901; U. K. 7777/00. Wireless telegraphic sending and receiving apparatus. 1.

432. Eschwege, H.—18 June 1901; U. K. 15,845/99. Coffee making apparatus consisting of a series of receptacles supplied with mixed hot and cold water. 1.

433. Soman, W. B.—25 May 1901. Lap rollers with sleeves to hold cotton laps from carding engines, etc. 1.

434. Neale, J. E.—7 June 1901. Railway signalling, telegraph instruments and ball vouchers. 8.

435. Muhl, C. P. C., & Forster, J. B.—1 April 1901. Life saving appliances consisting of a bag, etc., combined with belts or braces and filled from a compressed gas capsule. 1.

436. Lean, W. W.—6 March 1901. Clip or clasp fastening for harness. 1.

437. Mordey, W. M., & Fricker, G. C.—20 Feb. 1901; U. K. 2710/00. Electric quantity meters. 4.

438. Wallace, J. H.—2 July 1901; U. K. 3172/00. Rope grip for hobbling horses, tent ropes, ships rigging, etc. 2.

439. Braby, H., & Coutts, C.—30 Jan. 1901. Windmill with horizontal axle. 2.

440. Paltridge, C. C.—8 July 1901; U. K. 6573/00. Copying paper, usable without damping, is made by treating thin paper with turpentine and glycerine.

441. West & Co., E., & L. R. West.—26 Feb. 1901; U. K. 19,453/99. Leggings with lace strap fastenings. 1.

442. Hadwale, A. R.—20 May 1901. Fibre preparation, spring tongs and hand lever for. 1.

443. Smith, D.—2 July 1901. Cocks for steam injectors for forced draught furnace. Refers to 343/00. 1.

444. Begg, J.—2 July 1901. Tea withering arrangements with mechanical spreaders. 3.

445. Hume-Spry, Mrs. A.—17 Aug. 1901. Hair dye or preparation containing sulphate of iron, sulphur, till oil, quinine, chiretta, rosemary, lavender and verbena.

446. Read, H. V. R.—4 June 1901; U. K. 1558/00. Aërating liquids in bottles with sparklet apparatus. 1.

447. Major, J., & Wood, T. J.—8 July 1901. Dyeing, bleaching and treating cops of spun yarn. Refers to 117/99. 2.

448. Kearns, H. W.—U. K. 3416/00. Yarn and fabric with silky lustre gassed and mercerised under tension.

449. Cameron, D., Commin, F. J., & Martin, A.—22 Jan. 1901. Sewage is diluted with water before or during septic tank treatment.

450. Stein, H.—5 Nov. 1901. Cement made from blast furnace slag by melting it with additions and granulating or weathering.

451. Aitken, J.—13 June 1901. Rotary pumps and other engines with intermeshing screws. 2.

452. Read, H. V. R.—4 June 1901; U. K. 14,720/00. Aërating liquids in bottles with sparklet apparatus. 1.

453. Jones, G. S.—9 July 1901. Wheels with elastic spokes. 1.

454. Hodgart, J.—18 March 1901. Cotton opening and cleaning machine with revolving beaters and corrugated curved screen surface. 2.

455. Mackenzie, F.—Photography.

456. Thompson, A. J.—8 Feb. 1901. Buckle with seal for mail bags. 1.

457. Chimkévitch, P. de.—13 July 1901; U. K. 18,658/00. Electric selective devices to be used with telegraphs, signals, control and working of specified apparatus. 8.

458. Beckett, C.—21 Jan. 1921. Shoots and skips for loading coal into ships. 1.

459. Awdry, T.—9 Sept. 1901; U. K. 16,185/00. Label or ticket holders with one or more strips and manifolding surfaces. 1.

460. Reed, W. A., & Townly, A. M.—23 July 1901. Railway chair or sleeper with loose jaw and rails with corrugations, studs, etc., to prevent creep. 2.

461. Abbott, J. H.—13 July 1901. Bale tie or fastener like a snap buckle. 1.

462. Abbott, J. H.—Bale tie or fastener with swivelling tongue. 1.

463. Morrow, W. J. A.—2 May 1901. Brush with bristle held by iron band and screw. 1.

464. Wallace, J.—9 May 1901. Furniture joints made with flanged X plates, etc. 1.

465. Hamilton, D. M., Leslie, J. L., & Macmillan, D.—Decorticating and degumming rhea fibre.

466. Snowflake Refrigerator Co.—8 Feb. 1901. Refrigerator or ice safe construction with ventilating arrangements. 1.

467. Richmond, C. M.—20 July 1901; U. K. 21,947/00. Aërial machines with aërostats and propellors. 2.

468. Erie Exploration Co.—20 July 1901; U. K. 21,217/00. Electric current regulation by varying the length of break in intermittent current. 3.

469. Bowditch, N.—23 Feb. 1901; U. K. 17,863/00. Cotton gathering machine with revolving pickers. 7.

470. Westinghouse Brake Co.—31 Jan. 1901; U. K. 5191/00. Electric heaters in the brake circuit of electrically propelled vehicles. 2.

471. Lindsay, W. P. C.—Brace attachment to trousers using button holes on the trousers.

472. Treat, C. P.—19 Feb. 1901; U. K. 24,048/99. Telegraphic autograph transmission. 2.

473. Hill, W.—20 Feb. 1901; U. K. 2090/00. Aërating apparatus combined with bottling machine. 1.

474. Addis, A. W. C.—2 Sept. 1901. Tipping arrangements for vehicles running on rails. 3.

475. Pinckard, W. P.—7 Feb. 1901. Electric switch sockets for incandescent lamps with two or more filaments. 1.

476. Crayden, F.—16 Feb. 1901. Post bag with two flaps bearing addresses and a fastening. 1.

477. Crayden, F.—Leather bag with sliding top and fastening for permanent-way tools. 1.

478. Taylor, F. C.—Printing inks for multiple colour printing with additions to prevent intermingling on the rollers.

479. Donisthorpe, A. R.—14 Aug. 1901; U. K. 15,836/00. Saddle pad or numnah. 1.

480. Edgar, H.—20 July 1901; U. K. 26,440/98. Spinning, doubling and twisting machines and processes in which the fibre is drawn from a tubular receptacle. 2.

481. Law, E. Fitz-gerald, & Mahon, R. H.—Punkah pulling arrangements with pulling-rope attached to frame above the punkah; frame, flexible and spring connections. 1.

482. Clark, Miss M. H. E.—12 Aug. 1901; U. K. 5996/00. Ladies' cycling skirts. 1.

483. Walker, E. S. F.—11 Sept. 1901. Leather is tanned with certain additions of oils to the tanning materials.

484. Jones, W. S.—2 Aug. 1901; U. K. 17,757/99. Railway chairs or sleeper plates. 1.

485. Shuman, F. & C.—2 Aug. 1901; U. K. 19,937/00. Yarn mercerising apparatus. 3.

486. Bennett, A. H., & Jones, S.—2 Aug. 1901; U. K. 14,485/00. Gas burners with simultaneous lighting or extinguishing arrangements, depending on the pressure. 1.

487. Bethlehem Steel Co.—2 Aug. 1901; U. K. 10,738/00. Tool steel, containing chromium and tungsten or molybdenum, with special heat treatment.

488. Clark, F. L.—23 Feb. 1901. Railway vehicle electromagnetic brakes applied to wheels and rails. 2.

489. Clark, F. L.—23 Feb. 1901. Railway vehicle electromagnetic brakes applied to wheels and rails. 1.

490. Westinghouse Brake Co.—23 Feb. 1901; U. K. 3461/00. Railway vehicle electromagnetic brakes acting on wheels and rails. 4.

491. Lakshmanaswamy, P.—Medicine.

492. Lakshmanaswamy, P.—Medicine.

1901.

1. Spencer, W.—19 Dec. 1901; U. K. 3094/00. Kilns, especially lime kilns, with air supply near the fuel feed apertures. 5.

2. Crossley, B.—6 March. 1901; U. K. 23,925/98. Loom shuttle changing mechanism. 3.

3. Bole, W. A.—5 Aug. 1901; U. K. 23,344/00. Ignition plug for internal combustion engines. 1.

4. Kielberg, C. J.—16 Oct. 1901; U. K. 18,457/00. Cement pipes made by machinery described in 241/00, modified for rotation of mould and foundation.

5. Macdonald, J. K.—18 Feb. 1901; U. K. 795/00. Sewing machines of the lock stitch type with oscillating or revolving hook, thread governors and needle shield. 3.

6. Richardson, J., & Forsythe, W.—19 Feb. 1901; U. K. 15,466/00. Tea rolling machine with hopper over a rotating grooved table. 1.

7. Snell, C. S.—19 Feb. 1901; U. K. 14,086/99. Air and gas compressing device for Bunsen and incandescent gas burners. 1.

8. Clark, M. H. L.—12 March 1901; U. K. 19,114/00. Search light and signalling lantern mounted on a wheeled base, carrying acetylene generators. 1.

9. Servai, A. Subramanya.—4 Nov. 1902. Agricultural plough with several iron shares and wooden frame. 1.

10. Rhodes, C. J.—27 July 1901; U. K. 16,039/00. Screw stopper and spout for kerosene cans. 1.

11. Robinson, C.—10 Aug. 1901; U. K. 21,299/00. Engine stop gear operated by hand or automatically when speed limit is exceeded. 2.

12. Hatmaker, J. R.—29 July 1901; U. K. 1482/99. Milk caseine, free from fat and sugar is dissolved in alkaline solution and dried rapidly in thin films at temperatures up to 250°F.

13. Wade, J. A.—11 April 1901; U. K. 16,392/99. Ratchet brace spanner and lifting jack. 1.

14. Robinson, C.—14 Aug. 1901; U. K. 23,345/00. Pumps for lubricating steam engines. 1.

15. Lamme, B. G.—14 Aug. 1901; U. K. 1742/01. Dynamo armatures for alternating currents with symmetrically disposed closed coil windings and parallel connections by collector rings. 1.

16. Spiritine, Ld.—14 Aug. 1901; U. K. 18,880/99. Fuel for spirit stoves, etc., consisting of a mixture of stearine, sodium carbonate and methylated spirits or equivalent substances.

17. Stanley, J. C. W.—U. K. 22,954/00. Cotton seed hulls are crushed, the fibre is separated and used for paper, etc., while oil is extracted by a solvent, and the residue used as manure.

18. Rutnagur, S. L.—Water waste preventer with revolving trough measuring device which automatically closes the valve. 1.

19. Bissen Dutt.—28 May 1901. Sugarcane mills of the vertical roller type with guides to keep the cane between the rolls. 1.

20. Bissen Dutt.—28 May 1901. Sugarcane mills of the vertical roller type with guide rollers to keep the cane between the rolls. 1.

21. Beatty, C. A. B.—Hay rack for stable use. 1.

22. Hill, E. R.—17 Aug. 1901. Electric control mechanism especially for use with air pumps in electro-pneumatic systems of train control. 1.

23. Browne, R. I., & Petley, E. W.—Rifle, etc.; magazines with movable bottoms for Lee Metford rifles. 1.

24. Fox, G. M.—2 Aug. 1901; U. K. 20,191/00. Dummy bayonet rifle for teaching. 1.

25. Shamboo Nath.—19 Aug. 1901. Balance for testing gold by specific gravity. 1.

25A. Robinson, J. F.—Code system for postal communications.

26. Bivar, C. S.—Tea rolling machine with revolving ribbed table and jacket; and pressure devices. 1.

27. Moorhouse, M. L., & Crane, J.—3 Sept. 1901. Ship cleaning apparatus consisting of revolving brushes, etc., drawn over the bottom. 1.

28. Linotype Co.—26 Aug. 1901; U. K. 24,624/98. Type distributing machine for distributing type from line or column into channels in which it is stored for use. 6.

29. Newell, F. C.—23 April 1901; U. K. 10,074/00. Electric controller for braking electrically propelled vehicles. 3.

30. Newell, F. C.—23 April 1901; U. K. 9059/00. Railway vehicle brakes of the electromagnetic wheel and rail type. 2.

31. Newell, F. C.—23 April 1901; U. K. 9060/00. Railway vehicle electromagnetic brake shoes for wheels or rails. 1.

32. Newell, F. C.—23 April 1901; U. K. 9061/00. Electric control arrangement for regulating braking effect on electrically propelled vehicles. 1.

33. Newell, F. C.—23 April 1901; U. K. 19,058/00. Electric controller arrangements for braking electrically propelled vehicles. 2.

34. Newell, F. C.—23 April 1901; U. K. 9058/00. Electric controller arrangements for braking electrically propelled vehicles. 1.

35. Hopping, S. M.—6 July 1901. Railway rail joints of scarfed form. 1.

36. Reid, H. J. G.—Foot wear consisting of a leather sock like a boot and a heavier detachable sandal. 1.

37. Morton, J. S.—8 March 1901; U. K. 12,849/00. Screw pumps for jet propulsion of ships, etc. 2.

38. Madden, A. J.—18 May 1901; U. K. 12,105/00. Tap and service pipe filter with cleaning arrangements for the "candle." 3.

39. Gahagan, R. H.—Metal punching machine with screw and lever action. 1.

40. Crawshaw, S., & Dixon, F. C.—21 Sept. 1901. Acetylene lamp and generator. 1.

41. J. N. Banerjee & U. Chaterjee.—Cooking appliances, called chatoo or towah, furnished with handles.

42. **Miller, W. M.**—16 Mar. 1901; U. K. 22,438/99. **Evaporating, boiling, and drying apparatus for sugar, starchy materials, etc., with oil as the heat transmission agent.**

43. **McDermid, W. F., Trigg, H. C., & Bramham, W.**—29 Oct. 1901; U. K. 21,495/99. Railway vehicle hand power brake rigging. 2.

44. **Kirsch, B., & Pessl, A.**—3 Sept. 1901; U. K. 21,797/99. **Braiding** machines for covering ropes, etc. 3.

45. Walker, W., & Freestone, J. T.—17 May 1901; U. K. 25,108/99. **Metal** drums for oil with dished flanged heads, soldered in place. 1.

46. Vaughan, J. C.—28 May 1901; U. K. 2075/00. **Lubricating system with** distribution by compressed air. 4.

47. Major, E.—13 March 1901; U. K. 19,171/00. Bicycle with supporting attachment. 3.

48. Aberneithie, G. N.—19 Nov. 1901. Billiard cue tip and fastening. 1.

49. Besant, F. W.—18 June 1901. Lead seal and attachment for railway wagons. 1.

50. Hill, E. R.—18 Sept. 1901. Railway vehicle electro-pneumatic control system. 2.

51. Newell, F. C.—23 April 1901. Railway vehicle, magnetic rail and wheel brakes and rigging. 1.

52. West, D. K.—17 May 1901. Baling press for hay, fodder, etc., arranged to make several bales at once. 2.

53. Apjohn, J. H.—20 Sept. 1901. Weighbridge in which the load is supported on collapsible metal cushions filled with water of which the pressure is measured. 2.

54. R. C. Karmakar.—13 May 1901. Agricultural plough fitted as a tricycle. 1.

55. Skone, T.—19 Aug. 1901. Tap with cutting and fixing attachment for use with oil cans, etc. 1.

56. A Simon & Co.—16 May 1901. Legging or gaiter fastening with eyes and strap or band. 1.

57. Smith, G. G.—3 Sept. 1901; U. K. 12,240/00. Acetylene generator with sealed carbide containers punctured, and water supply controlled, by fall of the gas holder. 4.

58. Poeffel, A.—3 Sept. 1901; U. K. 12,078/99. Oil lamps with mantle and means for regulating the inner and outer air supply. 1.

59. Cuff, D.—3 Sept. 1901; U. K. 22,453/99. Filling and stoppering screw stoppered bottles with aërated liquids. 2.

60. Cuff, D.—3 Sept. 1901; U. K. 8080/99. Filling and stoppering screw stoppered bottles with aërated liquids. 2.

61. Westinghouse Brake Co.—4 Nov. 1901. Railway vehicle draw gear and buffing apparatus with frictional connections to allow for heavy stresses. 2.

62. Lamme, B. G.—17 Sept. 1901; U. K. 3112/01. Electric distribution with cut out in direct current side of converter on alternating current circuit. 1.

63. Westinghouse Brake Co.—30 May 1901. Railway vehicle coupling or draw gear attachment and support. 1.

64. International Metal Extraction Co.—11 May 1901; U. K. 23,660/00. Ores, especially in gold amalgamation processes are treated with air charged with chlorine, bromine, ammonia, etc. 1.

65. Williams, H. V.—21 Dec. 1901. Punkah pulling devices with frictional releasing and engaging devices between punkah and rotary motor. 2.

66. Lamme, B. G.—24 Sept. 1901. Electric distribution system for interconnected alternating and direct currents. 1.

67. Gresham, S. T.—Fastening of pivoted catch form for railway wagon and other flap doors. 1.

68. Muir Mills Co.—19 May 1901. Tent poles and ridge poles of telescopic type. 2.

69. Reynolds, H. K. & E.—U. K. 6855/00. Leggings and gaiters with spiral strap fastenings and adjustments. 1.

70. Hoare, A.—23 May 1901. Punkahs with flexible supporting frames, balance weights and special hooks. 2.

71. Godrej, A. B., & Boyce, F. R.—Locks of the lever type. 1.

72. Kirkpatrick-Picard, H. F.—30 Sept. 1901; U. K. 2151/00. Complex ores are roasted, briquetted with coal, etc., distilled in a zinc furnace, and the residue smelted for lead, silver and gold.

73. Edison, T. A.—30 Sept. 1901. Electric storage batteries using nickel or cobalt oxides and finely divided iron as the poles in an alkaline electrolyte. 1.

74. Strauss, Mrs. H. A.—30 Sept. 1901. Mosquito or fly guard with folding flexible frame, attached to beds, etc. 1.

75. Francis, M.—Baling press with rack and spur wheel gearing for jute, hides, etc. 3.

76. British Motor Traction Co.—6 May 1901; U. K. 9805/99. Variable speed and reversing gear for motor cars, etc., in which the shaft is uncoupled before changing gear. 2.

77. British Motor Traction Co.—6 May 1901; U. K. 7270/99. Spur and bevel gearing for motor cars. 1.

78. British Motor Traction Co.—U. K. 106/01. Railway vehicles propelled by explosion motors. 3.

79. Kuppusamy Aiyar, A. A.—23 Sept. 1902. Loom with special arrangements for shedding as a substitute for weaving sticks for pattern weaving. 2.

80. Dutton, F. H.—24 Aug. 1901. Railway switch with trailable connection and duplex cranks for operating treadle bar from point lever or point lock lever. 2.

81. D'Cruz, M.—Padlock with self closing catch and secret safety device for securing the key when inserted. 1.

82. Potter, W. J., & Nawab Syed Abdur Rasheed Khan.—10 Oct. 1901. Typewriters with variable spacing and arranged for writing Urdu, Persian, Arabic and Turkish. 5.

83. Macdonald, D. F.—3 Sept. 1901. Derrick cranes for ships, etc., with compensation for list. 1.

84. Perry, H. W.—Envelope perforated to facilitate opening.

85. Norman, W. W.—6 Dec. 1901. Water bottle and canteen combined. 5.

86. Darling's Patent Automatic Coupling, Ld.—16 Dec. 1901. Railway vehicle couplings of the automatic type. 1.

87. Margowski, M.—21 June 1901; U. K. 2429/00. Umbrella top notches and runners. 1.

88. Williams, J. R.—2 July 1901. Lock nut of the split ring type, tool for use with. 1.

89. Sagehorn, G. J. H.—Tiles and artificial stone made of broken limestone and cement.

90. Clyde Chemical Co.—22 Nov. 1901. Chromium oxides and salts prepared from chrome iron ore by calcination with lime and alkaline salts.

91. Lambert, W. A.—2 Oct. 1901. Punkah pulling devices in which the support is moved. 3.

92. Morris, G.—18 April 1901. Punkah hooks and other supports. 1.

93. Linotype Co.—15 Jan. 1902; U. K. 27,581/98. Justifying mechanism for type. 12.

94. Linotype Co.—1 Nov. 1901; U. K. 1996/99. Pantograph especially for engraving machines and for production of cameo designs. 2.

95. Bullen, R. H. P., & Coppack, R. J.—Guide block for use in gold mills.

96. Oatway, G. H., & Gartside, J. H.—2 Oct. 1901; U. K. 23,018/00. Electric fire alarm depending on sag of heated wire with testing attachment. 1.

97. Tucker, A. E.—18 Sept. 1901; U. K. 9932/00. Fuel prepared from crushed coal, etc., with an agglutinant made from dari or other grain.

98. Pupin, M. I.—2 Oct. 1901; U. K. 12,733/00. Electric circuit tuning arrangements to prevent attenuation of electric waves for distributing, and for telegraph and telephone systems. 2.

99. Abbott, H. A.—Acetylene generator with carbide carried by sieve in a bell gasholder. 1.

100. Heilmann, J. J.—29 Oct. 1901; U. K. 13,656/00. Electric accumulator plates with central wire cores and machinery for making them. 3.

101. Hepper, H. A. L.—12 Sept. 1901. Electric "key transmitter" for freeing the keys used for interlocking points and signals on railways. 2.

102. Visvesvaraya, M.—2 Jan. 1902. Sluice gates of the rising or combined rising and falling types with automatic or other working by overflow of water into counterbalance. 3.

103. Churcher, E. J.—Stirrup with safety releasing catch. 1.

104. Lewis, T. H.—30 Sept. 1901; U. K. 22,389/99. Calcium carbide cartridges for use in lamps. 2.

105. Mathuradas, C. M.—Coffee substitute made from seeds of a plant known as Kunvadia.

106. Churchill-Shann, M.—Suspension bridges with hinged girder sections supported by separate ropes. 1.

107. Bole, W. A., & Rund, E.—29 Oct. 1901; U. K. 21,977/00. Oil engine carburettor with baffles and jacket heated by cylinder cooling water. 1.

108. Kincaid, J. W.—4 June 1901. Mechanical stoker of the reciprocating plunger feed type, adapted for locomotives. 5.

109. Storer, N. W.—2 Nov. 1901. Electric distribution, E. M. F. in branch circuit maintained by a screw winding on one of three coupled armatures. 1.

110. Empire Cash Register, Ld.—22 June 1901; U. K. 10,904/00. Cash registers with amount and time recording mechanisms. 7.

111. Solar Motor Co.—21 June 1901. Sun's heat is utilized by arrangement of movable reflectors. 5.

112. Marconi's Wireless Telegraph Co.—17 May 1901; U. K. 5387/00. Wireless telegraphy, arrangement of aërials and connections. 1.

113. Stannus, G. F.—Marker for the game of bridge. 1.

114. Steel, F.—Rice polishing and meal dressing.

115. Kellner, W.—15 Oct. 1901. Umbrella holder or adjustable screen for use on vehicles, motor cars, etc. 3.

116. Ramaswamiah, C.—Water lift with counterbalanced buckets hung from a drum which is worked from a see-saw by rope gearing. 3.

117. Hoare, A.—11 June 1901. Punkah pulling device with variable or adjustable throw lever. 3.

118. Drewett, T. J. C.—10 May 1901; U. K. 2895/01. Stereotype flong made by coating paper by special mixture.

119. Mallett-Cotton Ginners Compress Co.—25 Sept. 1901; U. K. 3737/00. Baling presses for cotton with arrangements for forming the cotton into a bat and feeding it in folded layers into the press. 3.

120. Papillon, F.—U. K. 22,454/00. Block for water colour sketches. 1.

121. Ross, J. H.—29 Oct. 1901; U. K. 9537/00. Acetylene generator combined with a lamp in which charges of carbide are automatically fed through an oil seal. 4.

122. Daw, J. G.—29 Oct. 1901; U. K. 16,692/99. Ore stamp mills with annular heads and dies. 1.

123. Fanta, F.—15 Oct. 1901; U. K. 21,966/99. Electric incandescent lamp filaments reflashed or repaired in the bulb in a mixture of air and hydrocarbon vapour and blackening of the bulb is removed by heating in air. 1.

124. Mackie, V.—11 May 1901; U. K. 18,647/00. Loom healds of wire with ends formed to control electric stop motions. 1.

125. Perkey, H. D.—3 May 1901. Biscuit making machinery. 5.

126. Elliott, J. H.—29 Oct. 1901. Punkah hanging devices, and arrangements of pulleys, chains and clutches for pulling them. 3.

127. Sparling, A. H.—26 Sept. 1901. Padlock with removable shackle, special construction of casing and key hole protector. 1.

128. Conventry, B.—14 April 1902. Indigo manufacture as in 61/94 with arrangement of pipes and valves for leading the liquids and supplying chemicals out of contact with air.

129. Wernigg, A. C.—Railway carriage fans driven by wind motor. 1.

130. Leonard, W.—22 Feb. 1902. Cubicles, jail cells, etc., are opened or closed simultaneously, while separate access is permitted by a frame of sliding doors, each containing a hinged door. 1.

131. Lacote, J. A.—14 Aug. 1901; U. K. 3785/01. Fibre breaking and scutching apparatus with adjustable grooved rollers and beaters. 2.

132. Lacote, J. A.—15 Oct. 1901; U. K. 3786/01. Fibre, treated as in 131 above, is passed between a revolving drum and weighted frame. 2.

133. Erie Exploration Co.—5 Nov. 1901; U. K. 5121/01. Electric resistance or heater sections. 4.

134. Dunlop, J.—5 Nov. 1901; U. K. 14,528/00. Pneumatic hammers or hand tools of differential piston and inertia valve type. 2.

135. Honeus Sulphide Co.—5 Nov. 1901. Gold ores rendered free milling by roasting in admixture with sulphur and nitre or similar bodies.

136. Desai, D. G.—Coffee substitute made from seeds of a plant known as Kuvalia.

137. Abbott, H. W., & Porter T. I.—4 June 1901. Coin or disc counting device consisting of a hopper and ejecting slide with register. 2.

138. Cerebotani, L.—Transmitting manuscript, drawings, etc., by telegraph. 6.

139. Cerebotani, L.—Telegraphing by Morse code with rapid intermittent currents. 1.

140. Cerebotani, L.—23 Nov. 1901. Telegraphic recording meteorological instruments. 2.

141. Perkins, T. S.—10 Dec. 1901. Electric rheostat or resistance elements of grids with strengthened ends. 1.

142. Bernstein, M.—10 Dec. 1901. Telegraphic multiplex apparatus. 3.

143. Hodoman, E. E. V. & R. V.—12 Aug. 1902; U. K. 6338/00. Moulding slabs, panels, blocks, etc., of plaster of Paris, concrete, etc., for building purposes. 2.

144. Dawson, A. O.—22 Jan. 1902. Air cooled and humidified for ventilation by combination of electric fans, moistened screens and pumps. 2.

145. DeDion, A., & Bouton, G.—6 July 1901. Friction gear with worm adjustment for wear. 1.

146. DeDion, A., & Bouton, G.—1 July 1901. Valve gear for explosion and other engines of cam and tappet type. 1.

147. Rickie, R.—3 March 1902. Sugar manufacturing portable plant, consisting of vacuum pans, pumps, centrifugals, etc., mounted on lorries. 2.

148. Gocht, K. L.—30 May 1901; U. K. 4232/01. Nut locks for rails joints using a pin between the nut and washer. 2.

149. Fisher, J. C.—29 June 1901. Bicycle locking attachment. 1.

150. Perry, W. F. S.—11 Dec. 1901. Punkahs are pulled positively in both directions by endless pulling rope. 5.

151. Thulasi Doss, K.—Water lift with self-emptying bucket, guides and winch devices with fly wheel. 2.

152. Shuman, F.—23 Nov. 1901; U. K. 3568/01. Mercerising machines for yarn in hanks. 2.

153. Domergue, P. E.—23 Nov. 1901. Electromotor specially for driving fans. 2.

154. Linotype Co.—11 Dec. 1901; U. K. 617A/99. Printing machines with means for holding late news linotypes on the cylinder or bed. 1.

155. Linotype Co.—25 Nov. 1901; U. K. 2721/99. Linotype machines, adjustable moulds for. 2.

156. Linotype Co.—25 Nov. 1901; U. K. 9643/99. Linotype machines, improvements in the casting mechanism to prevent the pump acting when a line of insufficient length is received. 2.

157. Linotype Co.—25 Nov. 1901; U. K. 11,410/99. Linotype fudge or late news mould blocks. 1.

158. Linotype Co.—25 Nov. 1901; U. K. 16,268/99. Linotype machines, improvements in the magazine and escapement mechanism. 3.

159. Linotype Co.—25 Nov. 1901; U. K. 18,228/99. Linotype machines, improved means for automatically adjusting the assembler gong and line shifter when varying the line to be cast and improved detent for the vice screw. 3.

160. Linotype Co.—25 Nov. 1901; U. K. 18,991/99. Linotype matrices and means for making them. 1.

161. Linotype Co.—25 Nov. 1901; U. K. 24,508/99. Linotype ejector blades in sections. 4.

162. McMeekin, A. G.—22 Nov. 1902. Tea drying machines with continuous circulation of air through dryer and condenser or other means to remove moisture. 1.

163. Hunt, T. A.—22 Nov. 1901. Marker for the game of bridge. 1.

164. Dundonald, D. M. B. H., Cochrane, Earl of.—7 June 1901; U. K. 1926/01. Tea and coffee pots, arranged to stand on the end or bottom, with partition or receptacle for the solid. 1.

165. Peyton, A.—12 Nov. 1901. Entrenching appliance with pick and convertible spade or powrah. 1.

166. Curtis, C. H., Smith, C. L. W., Metcalfe, D. J., & Pearcy, A. C.—13 July 1901; U. K. 984/01. Explosives of the gunpower type with but little sulphur, and 1 to 10 per cent. of magnesium or manganese carbonate added.

167. Chevur Krishnachar Subba Row. Tread mill.

168. James, A. W.—4 June 1901. Ships tubular surface condenser built outside the hull so as to dispense with circulating pumps. 1.

169. Pearson, J.—10 Oct. 1901. Wheels of the tension type with arrangements for holding and securing the wire spokes. 1.

170. Ferre, H.—23 Nov. 1901; U. K. 5050/01. Medical inhaler or smoke producing toy consisting of a partitioned tube containing chemicals. 1.

171. Grote, L.—8 June 1901; U. K. 16,625/99. Glass bottle blowing and moulding machinery. 5.

172. Dow, F. F.—8 June 1901; U. K. 6331/01. Oil or gas burner with heating and vaporizing tubes for furnaces, etc. 1.

173. Dow, F. F.—8 June 1901; U. K. 6335/01. Tree felling machine consisting of a revolving bar cutter, driven by a flexible shaft, and mounted in a frame. 1.

174. Eyssen-Packer Defibrator Co.—3 Dec. 1901. Ramie and similar defibrating machines in which the reed is split before or during treatment. 5.

175. Führer, J.—22 June 1901; U. K. 16,277/00. Explosive preferably of the ammonium nitrate class containing metallic aluminium or magnesium.

176. Johnstone, P. T.—10 July 1901; U. K. 5883/01. Buckle fastening for bale ties. 3.

177. Hicks, T. H., & Alden, S. R.—11 Oct. 1901. Ore is roasted in admixture with mercury in a closed retort, the fumes being treated to recover arsenic and the roasted product amalgamated. 5.

178. Rolfe, J. H. H.—4 Feb. 1902. Tea in compressed tablet form is made from partly dried or fried or panned leaf and green tea after rolling. Sugar, milk, extracts of tea, etc., may be added.

179. Winsland, F. E., & Moore, G. E.—30 Nov. 1901; U. K. 2591/01. Tea packing machine with cam shaken platform.

180. Judah, M.—Mica is used in hats, roofs of vehicles, etc., etc., as a protector from the sun or as an heat insulator.

181. Crawford, A. A.—Electric switch or cut out with falling weight.

182. Begg, J.—22 Nov. 1901. Tea withering machines with endless belt conveyor in withering chamber, means for controlling humidity and temperature of air and the colour of light used at different points, and construction of air heating stove with spur-shaped pipes. 1. Refers to 444/00.

183. Harrison, F.—21 Aug. 1901. Punkah pulling machine with pivoted lever driven by crank from an electromotor. 2.

184. Laycock, W. S.—25 Feb. 1902; U. K. 9616/00. Railway vehicle hand brake ratchet gearing. 2.

185. Atkins, G. J.—3 Dec. 1901; U. K. 5596/01. Electrolysis of chlorides in a trough cell with a revolving drum cathode. 1.

186. Atkins, G. J.—3 Dec. 1901; U. K. 15,282/00. Electrolysed chloride solution used for treating ores and bleaching.

187. Dow, F. F.—8 June 1901; U. K. 6354/01. Oil vapour incandescent burner with pilot starting attachments. 1.

188. Hab & Son.—Padlock with spring and screw arrangement for ejecting and turning the self-closing shackle when the key is turned. 1.

189. Hab & Son.—Padlock with shackle of interrupted ring form with rack gearing for revolving it. 1.

190. Macalpine, T.—25 July 1901: U. K. 15,994/99. Oil is treated with low temperature steam for refining purposes.

191. Bradley, Mrs. H. E.—18 July 1901. Water or conservancy self-tipping cart with air-tight lid or seat and removable axle. 1.

192. Mower & Co.—Rice mills with engines mounted on a large or pontoon cart, etc., for transport to points when they are to be used.

193. Elworthy, H.—Electric ceiling fans with safety suspending device. 1.

194. Joseph, P. M.—Medicine.

195. Gilmore, G. T.—Medical irrigator or douche.

196. Mawson, E. O.—Thermantidote consisting of tubes or bars to which water supply is adjustably controlled. 2. Refers to 451/99.

197. American Cigar Machinery Co.—3 Dec. 1901; U. K. 7917/00. Cigar making machinery for applying the wrappers to the bunches. 37.

198. Beatty, C. A. B.—8 Oct. 1901. Rings and staples with catches for holding stable door guard poles. 1.

199. Rubinstein, J.—13 June 1902; U. K. 11,128/00. Lamps with incandescent fittings convertible into argand burners. 3.

200. Smith, H.—15 Jan. 1902. Wood work is ornamented by applying transfers with the aid of heating and rolling machinery. 1.

201. Engelhorn, L.—16 Dec. 1901. Ice making process of spraying regulated quantities of water in a vacuum; construction of chamber, measuring appliances for water, vacuum gauges, exhausting and acid circulating pumps, etc. 15.

202. Wurster, C.—19 Dec. 1901; U. K. 11,286/00. Paper pulping machines. 2.

203. Jarvis, J.—16 Nov. 1901; U. K. 11,275/00. Cycle rifle carrier arranged centrally under the saddle. 1.

204. Johnson, W. B.—14 Aug. 1901; U. K. 782/00. Ventilator wall box with adjustable curved louvres. 1.

205. Chapman, W.—10 Dec. 1901; U. K. 18,793/00. Electric railways and tramways on the conduit system, construction of cast yokes. 3.

206. Chapman, W.—15 Aug. 1901; U. K. 18,794/00. Electric insulator of petticoated ring form. 1.

207. Cosmopolitan Power Co.—11 Oct. 1901. Steam condensed and fluids cooled by air containing aqueous vapour.

208. Wakefield, C. C.—26 June 1901; U. K. 14,454/00. Sight feed lubricator with ejector arrangements of steam supply. 1.

209. Maconochie, A. W.—18 Dec. 1901; U. K. 13,174/00. Cans for preserving food with edges of lid spun over flange on body to replace soldered joint. 1.

210. Dodgson, F. L.—10 Jan. 1902; U. K. 5575/01. Railway points and signals with pneumatic operating and indicating apparatus. 3. Refers to 145/00.

211. Reading, H. S., P. A. & O. E.—8 July 1901; U. K. 12,080/00. Pianoforte sound boards made of aluminium and attachments. 3.

212. Cotton Seed Co.—10 Dec. 1901. Oils, waxes, etc., are bleached by exposure to light in transparent chambers which may be supplied with cooling agents and air, etc., under pressure. 2.

213. Cotton Seed Co.—10 Dec. 1901. **Meal bagging apparatus with vertically shaken bag holder.** 1.

214. Johnson, W. B.—26 Aug. 1901; U. K. 11,303/00. **Ventilator wall box** with adjustable curved louvres. 1.

215. Gardner, J.—22 Jan. 1902; U. K. 7761/99. **Wireless telegraph trans**mitters with automatic operation for repeated signals. 2.

216. Frost, H. H.—19 Dec. 1901; U. K. 15,892/00. **Liquid meter, arrange**ment of piston rod packing bearings, etc. 2.

217. Martin, P. V. S.—19 Dec. 1901. Tanning solutions for hides consisting of water and (*a*) iron, sal ammoniac, sugar and nitric acid, (*b*) acetic acid and magnesium sulphate.

218. Colman, H. D.—11 Oct. 1901. Knot tying appliances for hand use. 4.

219. Grimes, W., & Wakefield C. C.—3 July 1901; U. K. 19,611/00. Sight feed libricator, valve, window and other details. 2.

220. Hauser, I. L.—Packing cases or "knock-down" boxes with angle and corner pieces held by bolts. 1.

221. Benson, F. G.—19 Dec. 1901. Spray producer with air reservoir and pump. 1.

221A. Bivar, C. S.—Tea is dried in centrifugal separators. 1.

222. Fraser, J. A.—Railway and tramway rail joints.

223. Perry, H. W.—Railway vehicles with boxes on castors for transport of goods, and framework for securing the boxes on the trucks.

224. Linotype Co.—6 Feb. 1902; U. K. 617/99. Linotype machines, magazine details, special key leavers for words, shift arrangements for varying founts and other details. 12.

225. Linotype Co.—10 Jan. 1902; U. K. 15,575/99. Type and like distributing machines. 4.

226. Linotype Co.—10 Jan. 1902; U. K. 17,875/99. Linotype moulds adapted for different founts. 1.

227. Cotton Seed Co.—9 Jan. 1902. Drying apparatus, for cotton and other materials of tower form with inclined and other shelves and feeding attachments. 1.

228. Westinghouse, G.—19 Feb. 1902. Railway vehicle couplings of the automatic type with provision for coupling electric conductors, brake pipes, etc. 3.

229. Koppel, A.—2 Aug. 1901; U. K. 13,487/00. Railway, etc., tip wagons, locking device for. 1.

230. Hunt, E.—Railway vehicles are cooled by a fan, fixed underneath and driven from the axle, to circulate air through a water tank. 1.

231. Rowland Telegraphic Co.—30 Sept. 1901; U. K. 10970/00. Telegraphic page printing apparatus capable of working simple, multiplex or duplex. 19.

232. Calmette, A.—20 Jan. 1902. Indigo manufacture; the maceration of the plant is conducted without access of air.

233. Cole, T. & W. L.—29 July 1901; U. K. 4536/00. Refrigerating machines of the cold air type with means for removing moisture from the air. 14.

234. **Ewart, J. K.**—7 Sept. 1901; U. K. 375/01. Railway vehicle, hand brake rigging. 2.

235. **Roy, A. P.**—15 April 1902. Tiles of angle form or L-shape are used as a facing for mud walls, embankments, etc. 2.

236. **Schrottky, E. C.**—13 Sept. 1901. Rice malted by alternate steeping in water at 35° to 38°C. and exposure to air.

237. **Little, F. C. D. & Watson, J. C.**—23 Aug. 1901. Railway and other vehicles on wagon doors are locked by bolts connected or attached to the couplings. 2.

238. **Powell, C. K.**—Mica is used in hats, roofs of vehicles, etc., as a protector from the sun and as a heat insulator.

239. **Ernsthausen, Limited.**—Indigo manufacture with use of disastase, dextrine, glucose, and sulphides. Refers to 213/99 and 96/00.

240. **Mahboob Alum.**—22 Nov. 1901. Water lift with counterbalanced self-emptying buckets driven by winch gearing. 3. Refers to 57/99.

241. **Westinghouse, G.**—7 Jan. 1902; U. K. 10,013/01. Gas producers and refuse consuming furnaces with attachments for generating steam. 2.

242. **Muirhead, A.**—17 Feb. 1902. Telegraphic transmission receiving and retransmission instruments especially for submarine work. 2. Refers to 373/96.

243. **Fiedler, M.**—22 Jan. 1902. Explosives consisting of potassium chlorate, chromate and permanganates mixed, when required for use, with nitrobenzol and turpentine.

244. **Storer, J.**—19 Dec. 1901; U. K. 5590/01. Cans for kerosene with seamed joints. 1.

245. **Mawson, E. O.**—Sluices with two gates connected by links and arranged to open so as to maintain a constant head. 2.

246. **Saraflan, H.**—29 July 1901; U. K. 10,968/00. Lamp wicks with incombustible tips. 1.

247. **Smith, D.**—15 Jan. 1902. Furnaces for steam boilers with extra air supplied at the bridge by perforated pipe and injectors. 1.

248. **Fraser, D. C.**—Boot and gaiter combined. 1.

249. **Hucks, W. & W.**—20 Jan. 1902; U. K. 5908/01. Self-closing valves for dispensing aërated liquids. 2.

250. **Hucks, W.**—14 Jan. 1902; U. K. 7654/01. Self-closing valves for dispensing aërated liquids. 1.

251. **Naicker, S. S. B.**—Safes with special fittings, alarm and locks. 1.

252. **Thompson, R. W.**—Dredging by current diverting plates fixed in the stream.

253. **Neel and Richards.**—2 Jan. 1902. Stopper containing swivelling valve plate for water bottles. 1.

254. **Naylor, W.**—U. K. 19,750/00. Railway, etc., spikes with split shanks. 1.

255. **Hall, C. M.**—7 Aug. 1901; U. K. 14,572/00. Alumina prepared from Bauxite by fusion with reducing agents in an electric furnace. 1.

256. Naylor, W., & Doeg, S. S.—U. K. 17,347/01. Railway carriage and other door locks with spring roller to hold the handle in the open or closed position. 1.

257. Diamond Soda Water Machine Co.—28 Aug. 1901; U. K. 10,790/00. Reducing and multiple way valves for delivering flavoured aërated water, etc. 3.

258. Clayton, T. A.—22 Jan. 1902; U. K. 24,731/99. Sulphur dioxide generating cooling and circulating apparatus for fire extinction and fumigation. 1.

259. Abbott, A. H.—18 Jan. 1902. Punkah pulling machine with counterweighted arm, adjustable crank, spring and other rope attachments. 2.

260. Edison, T. A.—22 Jan. 1902; U. K. 10,505/01. Electric storage batteries, preparation of materials and construction of plates. 2. Refers to 73/01.

261. Pendry, W. A.—2 Oct. 1901; U. K. 22,890/00. Button making machinery. 20.

262. Low, R.—Arithmetical game for Kindergarten. 1.

263. Ostergren, O. P.—7 Feb. 1902; U. K. 12,415/01. Engines using mixed steam and air, construction of tubular boilers and arrangements of compressors, etc. 1.

264. Domergue, P. E.—25 Feb. 1902. Electric primary batteries, arrangements for drawing off saturated liquids from the cell bottoms. 1.

265. Eisenbeis, F., & Garelly, F.—28 Jan. 1902; U. K. 370/01. Rock drill of percussive type with adjustments for cutting and shearing, special form of bit and hammer head to drive wedges for bringing down coal, etc. 5.

266. Ernsthausen, Ld.—10 Oct. 1901. Indigo manufacture; alkaline or other sulphides are added to the stepping water. Refers to 96/00.

267. Ghasiram Kishenlal Bania Agarwalla.—10 March 1902. Ice cream freezer with refrigeration by the ammonia absorption type of apparatus. 2.

268. Jabar Lall Dhar & Krishna Chandra Dass.—25 March 1902. Lock with magnetized key. 1.

269. Bana, H. K.—Automatic sprinkler for fire extinction. 2.

270. Barnoy, N.—2 Oct. 1901; U. K. 12,117/01. Can, etc., cover or lid of air-tight form secured by turn buttons. 1.

271. Steen, J.—9 Oct. 1901. Fibre softening machines of roller type as used for jute with rollers weighted by adjustable weights instead of springs. 1.

272. Sheikh Karim Buksh.—9 Jan. 1902. Sugar cane mill rollers and spindles made of iron sections. 1.

273. Baker, J.—11 Oct. 1901. Bicycle partly driven by the rider's weight. 1.

274. Ross, C. E.—Section paper ruled with double lines for accounts purposes. 1.

275. Dodgson, F. L.—10 Jan. 1902; U. K. 5669/01. Railway point and signal pneumatic operating apparatus with electric control determined by presence of a train in the section. 1.

276. Lakshmi Lal Lunkar.—Cigars and cigarettes.

277. Barton, E. G.—Boot and gaiter combined. 1.

278. Woods, H. W.—Swinging punkah and rotary fan driven through clockwork with weights. 1.

279. Hyam, J. I. J.—Boot socks made of mica or asbestos.

280. Naidu, C. J. B.—16 Aug. 1902. Waterlift with counterbalanced buckets and winch gear with automatic reversing mechanism. 1.

281. Paton, N. F.—Railway and road tank vehicles adapted to carry goods on the top of the tank. 1.

282. Grennon, C. T.—Acetylene generators.

283. Chorlton, J.—2 Jan. 1902; U. K. 15,664/00. Mosquito net supports for bedsteads. 3.

284. Hammond Typewriter Co.—Typewriter with uniform spacing and multiple keys for oriental languages. 1.

285. Breedon, J.—11 Feb. 1902. Ores, etc., of clayey nature are dried, formed into tubes filled with combustible matter and calcined in a chambered or kiln furnace preparatory to chlorination, etc. 3.

286. Perrey, N. A., & Woodhouse, W. A.—Bicycle attachment for preventing falls when learning. 2.

287. Westinghouse Brake Co.—15 April 1902; U. K. 9374/01. Railway vehicle automatic couplings, connection to draw gear. 1.

289. Cantwell, Alice.—15 April 1902. Long boots with stiffening and puttee attachments. 1.

289. Small, F.—Cloth cutting device consisting of bevelled cutting wheels in holder. 1.

290. Oesterreichische Gasglihlicht und Electricitats Ges.—9 Sept. 1901; U. K. 20,277/00. Electric incandescent lamps with supports for osmium filaments.

291. Widmann, W.—10 Jan. 1902; U. K. 4195/00. Acetylene generator with automatic feed of carbide to water. 1.

292. Sharland, W. J.—Railway signalling code for line clear.

293. Lumiere, A. & L.—27 May 1902; U. K. 4309/01. Panoramic camera or magic lanterns. 3.

294. Roger, J., & Bamber, M. K.—15 Feb. 1902. Tea extract in solid form is prepared by treating the aqueous extract of the leaf by process of freezing evaporation and centrifugal separation.

295. O'Rourke, J. F.—11 Feb. 1902. Foundations for walls, piers, etc., especially under water, are built with an arrangement of caissons. 4.

296. Smith, G. C.—19 Dec. 1901; U. K. 11,032/00. Fastening with screw operation for doors, windows on railway vehicles, drawers, etc. 1.

297. Auchary, N. K.—18 Nov. 1902. Water lift with counterbalanced buckets connected by ropes to a long revolving arm, driven by a hand crank and gearing. 1.

298. Rich, F. A.—11 Feb. 1902; U. K. 22,573/00. Bicycle with two or more chain gears for varying speed. 1.

299. Cotton Seed Co.—11 March 1902. Bagging machine of vertically shaking type for seed. 1.

300. Fraser, Automatic Rove Stop Co., & Fraser, J.—16 Oct. 1901; U. K. 7388/01. Spinning, rove stop motions. 1.

301. Gray, A.—2 June 1902. Non-conducting material for steam pipes, etc., consisting of mica, clay and cotton fibre, filled into a long bag.

302. Sinclar, J.—17 April 1902. Screw propellers with swivelling mountings to replace rudders. 5.

303. Leslie, Sir B.—17 Sept. 1901. Conveyor of the chain type adapted for loading ships with coal, etc. 2.

304. Lowry, G. A.—2 Oct. 1901; U. K. 15,837/01. Ginning and baling combined machine for cotton. 5.

305. Indo-Egyptian Compress Co.—29 Nov. 1902. Cotton and similar bales made of spirally wound flattened strands. 1.

306. Chaumont, A.—16 Nov. 1901; U. K. 14,093/01. Railway vehicle brake rigging and indicators for air and hand brakes. 2.

307. Werry, W.—25 Feb. 1902; U. K. 6151/00. Engines with two pistons, reciprocating oppositely in the same cylinder. 3.

308. Perkins, J. A.—9 Oct. 1901; U. K. 14,029/00. Ball bearings for propeller and other shafts with end thrust. 2.

309. Mouchel, G. L.—11 Dec. 1901; U. K. 4548/00 Armoured concrete construction for piles, columns, telegraph and other poles. 5.

310. Perkins, J. A —9 Oct. 1901; U. K. 11,863/00. Roller bearings with guided rollers, specially railway axles. 2.

311. Chapman, A. H., & Campbell, R. O.—20 Jan. 1902; U. K. 15,321/00. Frozen meat is enclosed in a wrapper to present deposition of moisture on it when thawing.

312. Phillips, G.—19 March 1902. Wheel barrows, stretchers, etc., with gripping devices, for picking up and carrying boxes, etc., actuated from the pivoted handles. 1.

313. Elliot, J. H.—Bricks with bevelled edges and grooved; also hand press with movable top and bottom boards for moulding them. 3.

314. Hall Signal Co.—30 Nov. 1901; U. K. 10,616/01. Railway point and signal with electric control of operating and interlocking gear. 7.

315. Indo-Egyptian Compress Co.—27 Jan. 1902. Baling press for jute arranged to lay the fibres in parallel on curved lines from the centre of the bale. 4.

316. Goldschmidt, A.—4 April 1902; U. K. 16,466/00. Railway vehicle hydraulic brake with electric control. 1.

317. Naicker, T. M. V. & T. R.—Water lift with counterbalanced oval buckets, tilting gear and hand winch with reversing gear and fly wheel. 1.

318. Pundt, A. E.—1 Nov. 1901. Can lids with flanged and beaded joint and machine for making the joint. 4. Refers to 225/95.

319. New Century Finance Co.—10 April 1902: U. K. 13,402/00. Spinning machines with twist tubes and winding on bobbins. 2.

320. Mitchener, J. T., and Ross, W. R.—22 Nov. 1901; U. K. 8366/01. Tea, etc. boxes with felt and metal linings. 1.

321. Sayer, R. C.—17 Feb. 1902; U. K. 5306/01. Electric railways and tramways on a conduit system with spaced contacts and fluid in the conduits. 3.

322. Brown, W.—25 Feb. 1902. Gas and oil engine vaporizer, mixer and fuel supply regulator. 2.

323. Taylor, J. M.—5 Dec. 1901. Acetylene generator of water to carbide type, with automatic regulation, gas holder and washer. 2.

324. Daboo, D. M.—Railway points and signals worked by electromagnets with electric detector circuits. 3.

325. Mawson, E. O.—19 May 1902. Sluice gates in pairs pivoted at the tops and connected by links or gearing so as to open when water flows into the space between them. 4.

326. Willans, J. F.—15 Jan. 1902. Railway vehicle central or other couplings with means for lifting the hooks without going between the vehicles. 1.

327. American Tobacco Co.—25 Feb. 1902; U. K. 1676/01. Can lid with flexible tongues bent or seamed under a shoulder on the vessel. 1.

328. Westinghouse, G.—29 April 1902; U. K. 16,699/01. Gas manufacture with heat regeneration system and circulation of part of the gas through the producers, etc. 5.

329. Alford, J. W. G., & Mastin, B. C.—21 Dec. 1901. Window fastenings for securing the upper sliding sash at any desired opening. 3.

330. Meyer, A.—28 Jan. 1902; U. K. 20,780/00. Cartridge belt or bandolier. 1.

331. Gow, W.—U. K. 6162/01. Tea is damped, preferably by scented steam, before compression into tablets.

332. Reading, H. S., P. A. & O. E.—21 Dec. 1901; U. K. 3130/00. Pianoforte sound boards made of aluminium or alloy. 2.

333. Jugal Kishore.—Cooking set for travellers' use consisting of a pot with lid, containing lamp and other accessories. 2.

334. Thiollier, J. V. E.—3 May 1902; U. K. 9902/01. Bolts are secured in wood, stone, etc., by inserting a metal helix in the threaded bolt hole. 1.

335. Talbot Continuous Steel Process, Ld.—22 Nov. 1901; U. K. 8481/00. Iron and steel manufacture in basic open hearth furnaces by the Talbot continuous process.

336. Mouchel, G. L.—3 June 1902; U. K. 8831/00. Armoured concrete blocks for caissons, walls, well linings, foundations, etc. 9.

337. Chapman, W.—14 Nov. 1901; U. K. 15,195/01. Electric conductor supports for use in conduit systems of electric traction. 1.

338. Goodbun, J. P.—22 Feb. 1902; U. K. 14,591/01. Dumb caddies or golf bag supports. 2.

339. Cooper, E. S.—Equipment with haversack, water bottle pockets, etc., without chest straps, secured by one fastening.

340. Lion, M. L., & Cowburn, T.—21 Dec. 1901; U. K. 12,092/01. Boot and shoe soles, uppers, etc., are secured by double ended, barbed metal fasteners. 2.

341. Scraftion, J.—Compressed fodder in cakes containing seed, cake, grain, meal, grass, leaves, etc., in various proportions.

342. Wallace, J. S. S., & Cowell, W. B.—29 Oct. 1901; U. K. 9796/00. Oils or distillation products are treated with permanganates, alkalies and air and fractionally distilled. 1.

343. Stubbs, H. E. C.—11 March 1902. Cycle saddles with adjustable back rests. 5.

344. Morris, G.—Fire escape.

345. Rogers, A. B. C.—18 Jan. 1902. Compressed bhusa bales made in presses with scalloped top and bottom plates and division boards. 1.

346. Jehangir Dhongeebhoy Wadia.—Doors and windows with glass panes inclined and overlapping to leave ventilation spaces. 2.

347. Quinn, H.—Entrenching kit.

348. Wakefield, W. M.—Water wheel of portable horizontal form with jet for driving fans. 1.

349. Alleyn, H. M.—Tea manufacture, cutting, breaking, grading and sifting appliances, including rollers and sieving arrangements of various forms. 5.

350. American Machinery and Construction Co.—18 Jan. 1902; U. K. 17,464/00. Cotton, etc., seed delinting machine with revolving abrading surface and air blast. 3.

351. Smith, G. G.—15 April 1902. Acetylene generators with carbide sealed containers perforated on the fall of the gasholder. 6.

352. Scharrer, E.—30 Nov. 1901; U. K. 16,572/01. Loading and unloading device, for railway wagons, etc., consisting of a rail or beam with rollers on one side. 1.

353. Harrington, B. R.—10 June 1902. Crematorium furnace. 2.

354. Fletcher, J.—2 April 1902; U. K. 21,779/00. Aërating and turnover bottling machine for beer, etc. 1.

355. Clark, P. D. G.—10 Sept. 1902. Air heating furnace for tea driers, etc., with incandescent chamber and cooling arrangements. 1.

356. Osborn, W. J.—7 April 1902. Filling vessels with petroleum. 4.

357. Buchanan, R.—12 Aug. 1902; U. K. 14,019/00. Flour milling process utilizing air separation after the first break. 2.

358. Silver, A. H., & Butterworth, A.—18 March 1902. Back sight for rifles, etc., with rack adjustments. 1.

359. Churcher, E. J.—Plough with several adjustable shares, drawn by an elephant. 1.

360. Oxlade, R., & Richardson, W. J. W.—12 Dec. 1901; U. K. 6949/01. Telegraphs with telephonic receiver. 1.

361. Harrison, H. T., & Improved Electric Glow Lamp Co.—Punkah pulling mechanism with lever worked by crank and speed reducing gear from high speed electromotor. 2.

362. Deakin, W. H.—11 March 1902; U. K. 15,065/01. Railway signals with mechanical treadle arrangements for putting semaphores to danger by passing trains. 5.

363. **Milward, G. H.**—13 May 1902; U. K. 24,335/99. Spinning and doubling spindle and traveller apparatus. 4.

364. Gresham, H. E.—27 May 1902; U. K. 5507/01. Railway alarm signal apparatus on the train constructed to apply the brakes. 2.

365. Himalaya, M. A. G.—25 Nov. 1901; U. K. 16,181/01. Sun's heat reflected by movable parabolic or other mirrors to a focus in which a boiler, crucible, etc., is placed. 10.

366. Hill, C. G.—22 Nov. 1901; U. K. 19,743/00. Circular looms. 4.

367. Anderson, J.—11 Dec. 1901; U. K. 11,546/01. Awning or sail for cycles and other vehicles. 4.

368. Bracey, S. H.—18 Jan. 1901; U. K. 8311/01. Spikes for railways, etc., with specially shaped chisel points. 1.

369. Newell, F. C.—3 Dec. 1901. Electric controller with brake connections for electric traction. 2.

370. Churcher, E. J.—Spring wheel for bicycles, etc., with springs between inner and outer concentric rims. 1.

371. Doss, K. T.—Water lift.

372. Doss, K. T.—Water lift with counterbalanced self tilting buckets, worked by a winch. 1.

373. Rawson, C.—Indigo manufacture; arrangement of vessels, pipes and cocks for hot steeping. 1.

374. Padmanabha Iyer, C.—7 July 1902. Pump with counterbalanced single acting piston and inlet valve with float. 1.

375. Gresham, J. & F. J.—13 May 1902; U. K. 16,537/00. Injectors of lifting and forcing type combined with self-closing water regulating valve. 2.

376. Newell, F. C., & Herr, E. M.—23 May 1902. Electric heater for electrically propelled vehicles, consisting of the motor resistances with means for delivering the heated air inside or outside the car. 2.

377. Singer, W. F.—13 May 1902. Thermostatic switch applicable for refrigerating purposes. 3.

378. Paton, N. F.—1 April 1902. Petroleum cans or drums are emptied with the aid of a pipe partitioned to separate ingoing air from the oil. 1.

379. Read, H. V. R.—26 May 1902; U. K. 16,812/01. Siphon bottle with sparklet attachment. 2.

380. Ernsthausen, Ld.—Indigo manufacture; preparation of ferment by steeping selected plants in a small separate tank.

381. Declosets, L. P., & Felix, H.—22 March 1902. Ground nut husking machine with adjustable plate and revolving drum, both with greater surfaces. 2.

382. Cave, R. H.—Indigo manufacture; preparation and use of pure ferment cultures, and stopping ferment by antiseptics, heat, etc.

383. Jones, R. G.—11 March 1902. Starting gates for racing purposes. 2.

384. Jones, R. G.—11 March 1902. Riding saddle for training purposes. 1.

385. Duncan, F. N.—Railway, etc., wagons with weighing attachments.

386. Renfrew Crusher Co.—6 Jan. 1902; U. K. 662/00. Grinding and crushing roller mill apparatus for ores, etc. 3.

387. Walker, W.—20 Jan. 1902; U. K. 15,752/01. Railway chairs with two loose jaws. 1.

388. Waldbaur, A.—7 Feb. 1902; U. K. 18,344/01. Heating liquids by injecting or introducing flames or products of combustion into the liquid as spray or jets. 1.

389. Blakey, J. W.—13 May 1902; U. K. 5022/01. Incandescent gas lamp, construction of mixing tube and rocking support for mantle, etc. 1.

390. Churchill-Shann, M.—7 July 1902. Punkah pulling machine with spring arm and slot and crank mechanism. 2.

391. Drummond, W. & G. W.—U. K. 10,665/01. Railway tablet or staff exchanging apparatus on engine and line. 2.

392. Desai, Amidhar Ranchodji.—28 June 1902. Teaching appliance for arithmetic. 2.

393. Cave, R. H.—Indigo manufacture, sterilizing chamber for cakes heated by steam or hot water pipes. 1.

394. Pudumji, H., & Walke, C.—Tyres of rubber with metal band riveted on the tread. 1.

395. Berrigan, J. J.—13 May 1902; U. K. 12,181/01. Centrifugal separators with eccentric lining. 5.

396. Chevur Krishnachar Subba Rao.—Tread mills of rotary wheel or see-saw type and their gearing, also treadle gearing for various purposes such as raising water, driving machinery, propelling vehicles, etc. 4.

397. Gilruth, J. G.—4 April 1902. Paddy and other grain is boiled and dried or conditioned in vertical apparatus in which its fall is controlled and it is subjected to steam and hot air. 2.

398. Hall Signal Co.—13 Jan. 1902. Railway signals operated by liquefied gas from local reservoirs with electric control. 3.

399. Smith, E. R.—30 Jan. 1903. Can or receptacle for oil, spirits, etc., fitted with pump and locked casing. 1.

400. Nandi, Priya Nath. 13 March 1902. Hydrocele treatment with the aid of electricity. 2.

401. Darlington, T.—22 May 1902. Ventilating buildings by specially shaped bricks arranged to leave openings which may be closed by a grid. 2.

402. Johnston, H.—7 May 1902; U. K. 17,439/01. Ships steering gear combined with a windlass. 1.

403. American By-Products Co.—3 June 1902; U. K. 19,585/01. Cellulose for paper produced from cotton seed by treating with hydrocarbon vapour and then with caustic soda solution under pressure.

404. American By-Products Co.—24 June 1902; U. K. 19,586/01. Oils suitable for sulphonation produced from cotton seed hulls from oil mills, by extraction with hydrocarbon, sulphonating tanks also described. 1.

405. American By-Products Co.—24 June 1902; U. K. 19,587/01. Dyestuffs extracted from cotton seed residues, after treatment as in 404 above, by macerating in water and steaming or boiling.

406. Syed Ali Mohammed Khan.—27 May 1902; U. K. 12,692/01. Hookahs convertible into walking sticks or umbrellas. 1.

407. Sayer, R. C.—17 Feb. 1902; U. K. 8738/01. Rotary fluid pressure motors of the impact wheel type. 4.

408. Smith, A., & Jackson, S.—8 Sept. 1902; U. K. 22,523/00. Loom shuttle changing mechanism. 4.

409. Stromeyer, L. C. P.—3 Jan. 1902. Letter file holding papers by folded-in edges.

410. Churchill-Shann, M.—Electricity, arrangements for coupling generators on three wire or other systems to regulate load. 1.

411. Turner, H. H.—Polo stick with adjustable head. 2.

412. Abdul Kyum Abdul Hussain.—18 April 1902. Bolts for fastening, doors, etc., with spring to prevent rattling. 1.

413. Kitson, A.—11 Feb. 1902; U. K. 20,210/00. Oil vapour lamps with vertical vaporizing tubes, arrangement of starter, and means for substituting on mantle for a broken one, applicable for light houses. 2.

414. Kandler, R.—11 Feb. 1902; U. K. 20,799/00. Explosives containing nitrate of potassium or sodium mixed with a nitro-carbohydrate and a nitro-hydrocarbon.

415. Scheidel, A.—3 June 1902; U. K. 16,359/01. Ore lixiviating plant with special arrangements of filtering and mixing appliances, specially suited for slimes. 1.

416. McKnight, R.—3 June 1902. Ore treating process consisting in roasting the ore in a special tubular or other furnace, with admixture of haloid salts, sulphur, fluor spar, etc., and collecting the volatile products, containing precious metals. 3.

417. Gilbreth, F. B.—17 June 1902. Concrete mixer consisting of an inclined shoot made in sections with baffles, water supply, etc. 3.

418. Rawson, C.—12 Nov. 1902. Indigo manufacture; the plant is steamed and steeped one or more times.

419. Rawson, C.—12 Aug. 1902. Indigo manufacture; gaseous ammonia is passed into the liquor during the oxidation process. 1. Refers to 65/76 and 135/88.

420. Sharman, F.—7 May 1902; U. K. 11,517/01. Measuring cock for delivering aërated liquids, with means for shifting the measuring vessel. 1.

421. Gale, F.—3 March 1902. Ploughs with sowing, manuring and harrowing attachments. 2.

422. Westinghouse Brake Co.—29 Jan. 1902; U. K. 13,468/01. Railway signal, etc., electric interlocking apparatus. 1.

423. Drummond, D.—21 Jan. 1902; U. K. 13,769/01. Spark arrestors for locomotives. 5.

424. Timmis, I. A.—29 July 1902; U. K. 8266/00. Railway vehicle bogies with hauling force applied in advance of the centre pin. 3.

425. Musgrave, H. E., & Barnes, G. A.—12 April 1902; U. K. 17,532/01. Cutting machine for cloth, leather, linoleum, etc., specially applicable for cutting leather strip for covering spinning rollers. 2.

426. Wegerif, J. C.—21 Dec. 1901; U. K. 4214/01. Grinding and crushing mills of the roller and ring type with inclined axles. 1.

427. Corrington, M.—13 May 1902; U. K. 11,932/01. Railway vehicle compressed air brakes, means for recharging the auxiliary reservoirs while the brakes are applied and afterwards releasing them with certainty. 3.

428. Gahagan, R. H.—28 April 1902. Bearing for road vehicles, etc., with spring and absorbent packing for lubricating. 1.

429. Lamme, B. G.—6 June 1902. Electric rotary converter for obtaining direct from alternating currents. 1.

430. Jones, G.—24 June 1902. Ventilating and cooling railway vehicles, etc., by endless tattie belt driven by a fan. 1.

431. Payne, C. Y., & Allison, D.—11 Nov. 1902. Railway signals with mechanically worked indicator or recording counter. 2.

432. Wallace, H. L.—18 Jan. 1902. Valve or faucet of self-closing type operated by flow of liquid through a by-pass into a piston chamber. 1.

433. Wallace, H. L.—18 Jan. 1902. Valve or faucet similar to 432 above. 1.

434. Wallace, H. L.—18 Jan. 1902. Valve or faucet similar to 432 and 433 above. 1.

435. Lamme, B. G.—21 Dec. 1901. Electric windings for generators, motors, etc. 1.

436. Vasudeo Kashinath Kirloskar.—19 Aug. 1902. Water lift of the mhote type with counterbalancing truck on the incline and with flexible discharging spout for the bucket. 1.

437. Lamme, B. G.—16 June 1902. Electric bar windings for dynamos, motors, etc. 1.

438. Cosserat, W. A. P.—4 Aug. 1902. Railway point operating and locking mechanism, with provisions for vehicles trailing through. 3.

439 Chater, L.—Harness arrangements; animal driven by nose band instead of bit; adjustable collar and saddle shaft tugs, etc., connected by single pin; no traces. 1.

440. Chater, L.—Tyres with alternating leather studs on each side of a band and a laced cover: also naves for wire and other wheels. 1.

441. Gamlen, R. L.—U. K. 17,840/00. Boiler incrustation is prevented by jute or other fibre, alone or with binding material.

442. Marshall, J. T.—6 Jan. 1902; U. K. 3761/01. Steam engine valve gear linkage. 2.

443. Newton, C. R.—Tea fermentation is controlled by addition of any suitable vegetable enzyme, oxydaise or ferment at suitable stages.

4444. Fuller, J. T.—28 May 1902; U. K. 19,567/01. Baling presses for making cylindrical cotton bales. 4.

445. Gnapp, G. C.—6 Feb. 1903. Jiurickshas or other light vehicles fitted with bicycle wheels. 1.

446. Chruchill-Shann, M.—Electric light fittings or junction boxes for houses. 1.

447. Mouchel, G. L.—3 June 1902; U. K. 15,932/00. Piles of armoured concrete, made in sections to be added as the pile is driven. 1.

448. Hulburd, P.—6 Jan. 1902. Valves or cocks with screw down plugs having a renewable metal seating held by a screw sleeve. 1.

449. Hulburd, P.—6 Jan. 1902. Joint rings or washers of seamless soft metal with ridges for steam and other pipes. 1.

450. Pearse, T. H.—20 Feb. 1902; U. K. 23,761/99. Cotton gin rollers made of alternate discs of fabric or fibre, etc., and radially arranged layers of wire, horseair, etc. 1.

451. Hulburd, P.—6 Jan. 1902; U. K. 5515/00. Sight feed lubricator with two glasses and four way cock. 1.

452. Hulburd, P.—6 Jan. 1902; U. K. 3690/01. Glass tube holder for sight feed lubricators, gauges, etc. 1.

453. Shone, I., & Ault, E.—17 June 1902; U. K. 20,219/00. Sewage systems for house drainage into tank with intermittent automatic discharge and arrangements for ventilating by fans and valves. 3.

454. Sutton, G. W.—Tea sorted, etc., by allowing it to fall across a blast of air which delivers it into a partitioned box. 1.

455. Rutnagur, S. M.—5 July 1902. Water waste preventing cock in which the valve is closed by a tilting vessel. 1.

456. Westinghouse Brake Co.—3 March 1902; U. K. 7816/01. Railway vehicle brakes, valve gear for quick action of vacuum or compressed air. 1.

457. Henrici, W. A. E.—14 Jan. 1902. Rotary engines of the annular chamber type. 2.

458. Williams, J. T.—24 Jan. 1902; U. K. 5600/01. Musical instrument with bells and electrical key board action. 2.

459. Hoare, A.—18 Feb. 1902. Punkah pulling machinery arranged so that sets swing consecutively in order to equalize the power. Refers to 70/01. 5.

460. Choksey, Dossabhoy Rustomji.—10 June 1902. Fibre decorticating hand apparatus consisting of a screw clamp and gripping tongs. 1.

461. Lamme, B. G.—5 July 1902. Electric bar windings for dynamos, motors, etc. 1.

462. Brake, A.—4 April 1902; U. K. 11,169/00. Drawing off and cooling lager beer and other liquids under pressure. 1.

463. Baldrey, R. J.—Railway construction with T, H, or other sections of rails, stone or posts, etc., as sleepers, chairs to grip rails and sleepers, and sliding keys. 9.

464. Baldrey, R. J.—9 March 1903. Monorail systems with permanent way as in 463 above; the vehicles and locomotives have wheels which bear under the head of the rail to keep balance. 7.

465. Highley, G. E.—11 March 1902. Condensing steam and cooling liquids in tubular apparatus, part sprayed with and part immersed in the cooling medium. 1.

466. Sillivan, A. W., & Renshaw, W.—11 Sept. 1902, U. K. 23,394/01. Railway vehicles with arrangement of doors, windows, etc., to expedite passenger working. 6.

467. McTear, B. F.—17 Feb. 1902; U. K. 13,519/01. Metal tube rolling machine. 4.

468. Nelke, S.—12 Aug. 1902. Tanning process in which skin is first treated on the grain side before immersion.

469. Aratoon, S. C.—Photographic stand.

470. Tytler, F. W.—Agave and similar fibre is finished by washing with phenyl.

471. Saville, A. J., & Watson, L. P.—11 March 1902. Gaiter fastenings of hook type. 1.

472. Lumsden, W. C.—22 Oct. 1902. Nut lock for railway fish joints. 1.

473. Mills, C. K.—26 March 1902; U. K. 14,754/00. Camphors and phenyl derivatives prepared from turpentines.

474. Beaumont, F. J., & Still, W. M.—13 Aug. 1902; U. K. 6004/01. Electric dynamos driven from axles of railway vehicles for lighting, etc. 2.

475. Ellis, W. F., & Davis, E. C.—11 March 1902; U. K. 18,187/01. Wheels with tension spokes, details of spokes and nipples, felloes and elastic tyres. 1.

476. Milne, C. W., & Haste, F. S.—24 Jan. 1902; U. K. 23,306/00. Pumps of the bucket or differential type with valve arrangements designed to utilise the momentum in the liquid column. 3.

477. Servai, A. S.—Water is lifted from wells by closing them and forcing in compressed air. 1.

478. Walke, C. N. E.—11 Nov. 1902. Steam boiler incrustation prevented by varnishing inside with a composition of molasses, plumbago and oil.

479. Singer, W. F.—3 March 1902. Refrigerating apparatus of the ammonia compression type. 2.

480. Gwynne, J., & Sargent, E. W.—15 April 1902; U. K. 5502/00. Gold ore slimes are aërated by forcing them by a pump through a pipe into which air is admitted. 1.

481. Dürr, G.—22 July 1902; U. K. 9375/01. Door holders for inwardly opening boiler furnace doors. 1.

482. Gwynne, J., & Sargent, E. W.—15 April 1902; U. K. 22,666/01. Aërating liquids for chemical purposes, etc., by circulating through a chamber and combining nozzle. 1.

483. Lowell, E. C.—U. K. 854/00. Paper bags with pleated bottoms, machine for making. 5.

484. Gilbert Stringer, H. J. S.—17 Feb. 1902; U. K. 1483/01. Type justifying machine. 3.

485. Chambers, J. A.—13 May 1902. Glass manufacture, tubes or cylinders are drawn from the molten bath in a special furnace, being blown during the process. 3.

486. Calmette, A.—10 April 1902. Indigo manufacture; the maceration liquid is drawn from the plant, kept hot during hydrolysis of the indican, and subsequently oxidized by blowing in air.

487. Gunga Ram.—25 April 1902. Wells are lined with perforated radial bricks interlocked by pins instead of dovetails as in 275/90. 1.

488. Kirloskar, V. K.—28 April 1902. Warp winding and leasing machine consisting of a horizontal frame traversed backwards and forwards under the thread guides. 2.

489. Frampton, C.—Label holder with transparent front and fastening for railway vehicles, trunks, etc. 3.

490. Bernard, K. K.—18 Aug. 1902. Ice cream freezer using water and a salt, such as ammonium nitrate. 1.

491. Sadik, S. G.—Floor cloth.

492. Roberts, H. I.—11 March 1903. Baling press with independent revolving boxes. 1.

493. Deane, H. D., & Judge, C. G. L.—6 Feb. 1903. Centrifugal drier for tea leaf consisting of a perforated horizontal drum. 1.

494. Lee, J.—18 Feb. 1902. Mixing and kneading machine for dough, etc. 3.

1902.

1. Watson, T.—Portable single compartment latrines of circular form. 1.

2. Hahn, G.—8 Aug. 1902. Metallic packing rings containing lubricant, for stuffing boxes. 1.

3. Barlet, F.—8 Aug. 1902; U. K. 20,029/01. Loom of combined needle and shuttle type arranged for forming intermediate selvedges or fancy or figured stripes. 2.

4. Peck, J. S.—3 March 1902. Electrical distribution with three wire direct current circuits and transforming devices. 1.

5. Schlicter, H. C.—8 March 1902; U. K. 16,472/01. Water filtering and cleaning plant with settling channels for water mixed with chalk or other cleaning material. 1.

6. Johnson, S. H.—10 April 1902; U. K. 11,135/01. Electric arc lamps with thermally regulated feed. 3.

7. Westinghouse, G.—11 Aug. 1902. Internal combustion engines with tandem cylinders arranged for three impulses in two revolutions. 2.

8. Harichand Muncharam.—11 Aug. 1902. Safe with secret chamber under false bottom. 3.

9. Cardew, C. E.—3 Oct. 1902. Axle boxes for rolling stock with cover having a locking hinge joint. 3.

10. Eliot, C.—16 Aug. 1907; U. K. 17,866/00. Armoured concrete floors, walls, etc., with specially disposed bent and straight rods and connections. 2.

11. Foot, W. J.—13 May 1902; U. K. 23,619/01. Railway and tramway rails in two parts with removable head and their supports. 1.

12. Whiting, J. E.—25 Aug. 1902; U. K. 22,305/00. Sluices with sliding gates on which pressure is counterbalanced. 2.

13. Keyes, W. S.—4 April 1902. Dykes protected against burrowing animals by a coating of crude petroleum.

14. Gill, T. H.—1 April 1902; U. K. 6600/01. Detachable footboard and seat for motor cars and road vehicles. 1.

15. de Pass, E.—15 May 1902; U. K. 13,339/01. Railway vehicle brakes of the compressed air type specially adapted for long goods trains. 3.

16. Taylor, W.—16 Sept. 1902; U. K. 23,534/01. Railway points and signals operated by a screw and nut mechanism. 2.

17. de Pass, E.—15 May 1902; U. K. 14,565/01. Railway vehicle brakes of the compressed air type with valve gear arranged for simultaneous application thoughout the train. 2.

18. Blakiston, R.—16 Aug. 1902. Liquid meter and recording apparatus. 4.

19. Battle, J., & Bueno, J. M.—12 Aug. 1902; U. K. 12,773/01. Electric watt meter. 2.

20. Glynn, W. M.—24 Feb. 1903. Tea is equalised or broken by cutting between fixed and revolving knives before the leaf is rendered brittle by firing. 1.

21. Kitson, A.—8 April 1902; U. K. 21,472/01. Oil vapour lamps, vaporizing and cleaning devices. 1.

22. Gentzsch, A.—12 Aug. 1902; U. K. 24,590/01. India rubber substitute made by mixing caoutchouc with a viscid substance prepared from wax, resin, asphalt, tar or pitch with addition of water and certain salts.

23. Newcomb, F. C.—26 May 1903. Superheated steam generator of the tubular flash type with means for controlling supply of fuel, etc. 9.

24. Salag Ram.—Grinding mill with several sets of stones geared together and driven by animal power. 4.

25. Masse, C., & Soc. Fr. de Ramie.—15 March 1902; U. K. 11,858/01. Ramie, china grass, etc., are retted by a process of dipping in boiling alkaline solutions, drying and steeping in alkaline soap or other salt solutions.

26. Khettery, I. J., Bidree, A. S. S. S., & Powarh, A. S. H. S.—Warping machine with stationary peg frame over which carriage distributes the thread. 3.

27. Robinson, C.—27 Aug. 1902. Adjustable bearings for crank shafts of large engines. 1.

28. Cotton Seed Co.—18 Sept. 1902. Cotton seed hulls are treated by sifting and singeing to free them from fibre. 1

29. Boeken, H. J.—27 Aug. 1902; U. K. 26,391/01. Fibre breaking and scutching apparatus with two sets of belt feeds and transverse feed for transferring material when one end has been treated. 1.

30. Smith, H. T., & Tarrant, A. J.—25 Oct. 1902. Station indicator for use on railway vehicles, etc., with clockwork escapement released electrically. 1.

31. Marsland, J., & Gaut, J.—20 Aug. 1902; U. K. 18,829/01. Guns with an adjustable cheek pad on the stock. 1.

32. de Pass, E.—15 May 1902; U. K. 16.265/01. Railway vehicle brakes on the compressed air system with valves arranged for accelerating reduction of pressure and simultaneous application of brakes. 3.

33. Kinsey, H., Challenger, G., & Nott, G. H.—15 May 1902; U. K. 11.714/01. Acetylene generator of the carbide to water type with gas holder. 3.

34. Lovell, A., & Fincken, G.—16 Aug. 1902; U. K. 1669/00. Cans or boxes with flanged or dished covers applied in vacuum chamber. 1.

35. Alfred, W. H. L.—15 May 1902; U. K. 18,480/00. Cocoa and similar fibre is treated by heating, beating and rolling to make it resemble curled horse hair. 5.

36. Eldred, B. E.—21 Oct. 1902; U. K. 17,197/01. Kilns and other furnaces are supplied with inert or neutral gases to assist in the control of combustion. 1.

37. Bhagwandas & Bissesvar Persad.—Medicine.

38. Moorhouse, D., & Dewar, D. T.—10 April 1902. Belt tensioning arrangements for spinning machinery. 1.

39. Swaminatha Pillai, S. K.—Perpetual calendar with revolving perforated discs. 2.

40. Crown Paper Co.—12 June 1902; U. K. 236/02. Carbon paper manufacture. 6.

41. Ferrell, J. L.—26 May 1903; U. K. 830/02. Wood, such as railway sleepers, impregnated with aluminium sulphate and a basic salt for preserving and fire proofing. 2.

42. Maxwell, H. M.—Horse's bits with elongated spares and attachments. 3.

43. Murray, D.—25 Nov. 1902; U. K. 22,219/01. Telegraphy, submarine, with an alphabet of equal length signals, transmitting and recording apparatus. 3.

44. McAdams, W. A.—27 Aug. 1902; U. K. 4676/01. Solder for aluminium composed of cadmium, mercury and zinc.

45. Hassen Mahmod.—Size for weaving purposes prepared from a bulbous root known as "pan kanda."

46. Wieder, H. G. A. I., & Bromhead, S. S.—7 June 1902; U. K. 19,890/01. Phonograph diaphragms, consisting of glass sheets and metal wires, and their mountings. 1.

47. Fritz, S. S.—10 June 1902. Umbrella rib and stretcher joints. 1.

48. Wheatley, W. G.—Railway switch detector.

49. Nathan, C. R.—Perpetual calendar with revolving perforated discs.

50. Hanuman Prasad.—3 Oct. 1902. Stoning tool for plums. 1.

51. Durr, G.—19 Aug. 1902; U. K. 4424/01. Steam generators, hand hole covers for water tube boilers. 1.

52. Wood, E. J.—27 Aug. 1902; U. K. 23,615/01. Railway vehicle axle boxes liners. 6.

53. Terry, A. E.—1 Aug. 1902; U. K. 19,025/00. Chest expanders and other exercising apparatus. 1.

54. Westinghouse, G.—26 Jan. 1903; U. K. 2805/02. Copper smelting process in basic furnaces with iron oxide additions. 1.

55. Soc. des Telegraphes Multiples.—22 July 1902; U. K. 24,397/01. Duplex telegraphy with alternating currents and three coil transformers. 1.

56. Addis, F. H.—30 Jan. 1903. Collapsible boat with folding sides and bottom. 2.

57. Jones, G. S.—Wheels with wooden bearing surfaces for the axle. 1.

58. Baldock, C. B.—15 Aug. 1902. Hunting knife with saw back and spear shaft holding attachment. 1.

59. American Machine Telephone Co.—7 May 1902; U. K. 8648/01. Telephone exchanges. 22.

60. Marconi's Wireless Telegraph Co.—27 Aug. 1902; U. K. 3481/01. Wireless telegraphy apparatus for the generation of waves. 1.

61. Fabrik Fur Mechanische Hirnholzmosaik.—13 May 1902; U. K. 20,287/01. Loom for making mosaic flooring of wooden blocks secured together by interwoven wires. 1.

62. McCauley, T. H.—10 Feb. 1903; U. K. 2200/01. Axle box with reservoir for lubricating journals of rolling stock. 1.

63. Jones, G. S.—Plough with false side and bottom plates and special attachment of share and mould board. 1.

64. Kellogg, J. H.—7 June 1902; U. K. 5698/01. Food preparation consisting of wheat gluten, free from starch, mixed with shredded vegetable or nuts.

65. Turner, H. G.—Magnesite is dead burnt before use for making bricks or other fire resisting material.

66. Ashton, H. B.—8 April 1902; U. K. 21,174/01. Spinning ring and traveller frames with means for cleaning the rings. 1.

67. Williams, W. G., & Edwards, H. H.—28 Jan. 1903. Targets with segmented faces and self-registering electric arrangements. 4.

68. Conrad, F.—26 Nov. 1902. Electricity, indicating phase, relation or difference in frequency of two alternating or polyphase current circuits. 1.

69. Hanneborg, O. B. H.—5 April 1902; U. K. 24,485/01. Excavating machine with a screw digger running on rails, specially designed for cleaning or making ditches. 5.

70. Sreemant Balwant Rao.—13 June 1902. Road vehicles with four wheels, construction of underframe and body mountings. 2.

71. Pullman, C. L.—30 May 1902; U. K. 9960/01. Ventilating boxes with flap valves for rolling stock, ships, etc. 1.

72. Pratt, F. M.—7 June 1902. Tanks with means for discharging comminuted and compacted contents, specially applicable in the extraction of oil from meal by solvents. 1.

73. Pratt, F. M.—7 June 1902. Similar to 72 above with central instead of side discharge. 2.

74. Hyatt, J. W.—7 April 1902. Lamp wicks made with parallel threads and adhesive matter; and machinery for making. 8.

75. British Westinghouse Electric & Mfg. Co.—30 Sept. 1902; U. K. 1238/02. Electric dynamos with ventilated collecting rings. 1.

76. Inverted Incandescent Gas Lamp Syndicate.—16 Aug. 1902. Gas burners for inverted incandescent mantles. 1.

77. Johannes, J. N.—Lift for heavy weights.

78. Fazulbhoy Janmahomed.—16 Dec. 1902. Fibre decorticating machine with counter weighted blade for hand use. 2.

79. Deva Singh & Bhagat Singh.—Baling press bed for forage.

80. Chaussachi, G. M.—14 July 1902. Cotton gin rollers built up of felt washers. 1.

81. Rosenfeld, L.—2 Oct. 1902. Dust absorbing sweeping material consisting of mineral powder and a fatty or oily substance.

82. Walke, C. N. E.—Convertible trestle bed and holdall. 1.

83. Wright, W., & Crewe, D.—14 July 1902; U. K. 13,192/01. Feed water heaters, condensers, etc., with baffles in tubes and grease catchers. 1.

84. Bremer, H.—2 Oct. 1902. Electric arc lamp construction, feeding, etc., arrangements with carbons as in 85 below.

85. Bremer, H.—2 Oct. 1902. Electric arc lamp carbons impregnated with metallic salts. 2.

86. Lamme, B. G.—18 Oct. 1902. Electric distribution by rotary transformers, special means for starting transformers. 1.

87. Lamme, B. G.—2 July 1902. Electricity, construction of windings for dynamos. 1.

88. Coath, D. D.—U. K. 16,997/00. Railway vehicles with outside flanged wheels in outside bearings in a frame carrying the body on pivots. 1.

89. Haji Mahomed Yusuf Ismail & Allen, J. W.—Paddy is steamed in a vessel with a perforated lining. 2.

90. Cantwell & Co.—25 April 1902. Combined toilet table and travelling trunk for ladies' use. 3.

91. Harrington, B. R.—Destructor furnace for refuse with smoke-consumption chamber. 1.

92. Mumford, F. T.—2 Oct. 1902; U. K. 24,026/01. Electrolytic extraction of gold and other metals from ores and slimes in revolving barrel apparatus. 2.

93. Pitt, G. W.—11 Sept. 1902; U. K. 20,846/00. Wheels with U-section pneumatic tyres and wooden rims. 2.

94. Bonnaud, J. B. G.—9 May 1902; U. K. 8063/01. Nitro-cellulose composition with gum copal and castor oil for coating, varnishing and water proofing purposes.

95. Browne, A. A.—8 Aug. 1902. T-hook fastening for bale binders. 1.

96. Illingworth, R., & Naylor, G.—16 Aug. 1902; U. K. 9720/01. Dyeing yarn and other textile materials by piston apparatus which drives the liquid backward and forwards through the material. 1.

97. Monie, H.—Railway carriage panels made of enamelled iron instead of wood.

98. Stromeyer, L. C. P.—22 Sept. 1902. Paper file using slotted corner cards.

99. Nateh, D., & Co.—Hat without brim made of pith.

100. Bhagat Ram Sawhney.—14 Aug. 1902. Portable stove for use in disinfecting buildings. 1.

101. Amberg, G.—2 Oct. 1902; U. K. 22,582/01. Telephone system with primary and secondary of a transformer in the microphone and line circuits. 1.

102. Page, R. H.—19 Aug. 1902; U. K. 18,733/01. Organic peroxides produced by slow oxidation of aromatic aldehydes and an anhydride of a fatty acid. 1.

103. Bush, C. A.—Bicycle rest.

104. Johansson, F. J. E.—9 May 1902; U. K. 6150/01. Steam engines with several cylinders placed parallel to the shaft. 4.

105. Baker, J. A. & W. K.—9 May 1902. Refuse destructor furnace with drying hopper, mechanical feed, fan draught, etc. 1.

106. Couston, J., & Porritt, W.—2 Oct. 1902. Pipes with longitudinal dovetailed seams. 2.

107. G. Ahmed Cummoodin Sitware.—28 Nov. 1902. Aërating appliances for beverages with gas generator, filter and bottle shaking arrangements. 6.

108. Carlson, S.—22 July 1902; U. K. 3948/02. Street, etc., lamps with oil supplied to burner by compressed gas. 1.

109. Carlson, S.—22 July 1902; U. K. 3952/02. Vapour burner cleaning attachment. 1.

110. Nernst Electric Light, Ld., Ram, G. S., & Sheppard, E. G.—3 Oct. 1902. Electric incandescent lamp details. 3.

111. Iske, H. A.—13 Aug. 1902. Module or measuring weir for irrigation with means for controlling and adjusting the crest. 1.

112. Sleeper, F. H., & Mahon, E. A.—5 Nov. 1903; U. K. 6954/01. Rotary engines in which a cam or crank is rotated by the pressure of flexible walls of fluid pressure chambers. 3.

113. Wyness, J., Grimes, H. R., & Datta, P. K.—Life buoys and belts constructed of sola pith.

114. Fiedler, M.—2 Dec. 1902; U. K. 23,284/01. Explosive consisting of potassium chlorate and permanganate impregnated with turpentine oil and carbolic acid.

114a. Haji Mohamed Yusaf Ismail & Allen, J. W.—Paddy is steeped, steamed and dried before husking.

115. Winter, C. B.—Folding waste paper receptacle.

116. Page, R. H.—23 Oct. 1902. Antiseptic compound consisting of a hydrolyzed acetyl peroxide.

117. Sheehan, F. A.—21 May 1902. Filter and refrigerator combined. 2.

118. Jefferies, R. J.—U. K. 4285/01. Meat-hook with insect guard. 1.

119. Hayes, A.—7 May 1902; U. K. 5757/01. Burner for gas or oil vapour with incandescent mantle or for heating purposes. 2.

120. Hindley, E., Walker, S., & Rose, S.—16 Aug. 1902; U. K. 26,115/01. Dyeing, scouring, bleaching, etc., yarn in cop by liquor circulated by pumps. 1.

121. Hormusjee Edulji Bottlewalla.—19 Dec. 1903. Oil lamp with inverted flame. 2.

122. Jones, W. R. S.—26 Sept. 1902; U. K. 6003/01. Railway vehicle couplings both of the automatic and non-automatic types. 7.

123. Morison, D. B.—24 June 1902; U. K. 10,890/01. Ore stamps, construction of mortar boxes. 2.

124. Act. ges. "Magneta."—24 June 1902; U. K. 15,833/01. Clocks with electro-magnetic actuation. 1.

125. Andrews, J. & S.—7 July 1902; U. K. 1661/01. Flour, etc., is treated with oxidising gases, preferably nitric acid or peroxide. 1.

126. Stewart, D. S. S.—25 Oct. 1902. Grinding machine of the impact type with screening, discharging, cooling and heating arrangements. 2.

127. Anglo-French Ramie Machine Co.—2 Dec. 1902; U. K. 1043/02. Breaking and scutching apparatus for ramie with flexible beaters on revolving drum. 1.

128. Harwood, S. C. & D. W.—19 Dec. 1902. Locomotive spark arrestor with hollow deflector and perforated baffles. 1.

129. Elliot's Patent Improved Domestic Pin Co.—Pins with waved, twisted, etc., shanks for domestic purposes. 1.

130. Sharland, W. J.—13 Jan. 1903. Railway wagon self-closing door lock and top and bottom catches. 1. Refers to 174/00.

131. Sharland, W. J.—Railway carriage door self-closing lock with turn handle. 1.

132. Robinson, W. J., & Higgins, H.—9 May 1902; U. K. 12,745/00. Grain drying kiln with stepped floors and means for reversing the layers. 2.

133. Bisson, L. J.—5 July 1902; U. K. 7300/01. Photo mechanical printing plates prepared by a chrome and gelatine process.

134. Marolf, J.—20 Aug. 1902; U. K. 26,030/01. Ships with spare rudder mountings. 1.

135. Dorabji Merwanji Daboo.—Railway vehicle door locks, station indicators, etc., worked electrically. 3.

136. Perkins, T. S.—12 Nov. 1902; U. K. 1874/02. Electric controllers for electric motors arranged for reversal of handle to cause braking. 3.

137. Valves, Ld.—17 July 1902; U. K. 20,727/00. Sealing tins, etc., used for food, etc., by fusible material held over the vent during sterilization. 3.

138. Campbell, J.—28 May 1902; U. K. 7139/01. Lighters and barges with arrangements for loading or unloading coal, etc. 7.

139. Parker, T.—12 Nov. 1902; U. K. 25,841/01. Impact pulverizers with freely pivoted hammers on revolving shaft for treating clay, rock, etc. 2.

140. Krank, A.—28 May 1902; U. K. 8440/01. Turbine or impact wheel and rotary pump mounted on same shaft. 1.

141. J. Hinks & Son, Ld., & Hinks, H. D.—28 Oct. 1902; U. K. 12,462/01. Hurricane lanterns with three or more air tubes. 3.

142. Brooks, A. A., & Watson, G. A.—19 Dec. 1902; U. K. 17,986/00. Photographic change box or dark slide for films or plates. 3.

143. Ferrell, J. L.—12 Nov. 1902. Wood preserving and fire proofing process and apparatus in which wood is heated and impregnated successively with different chemicals which react. 1.

144. Faure, P. P.—3 March 1903; U. K. 5508/02. Breaking and scutching ramie with series of revolving toothed rollers. 1.

145. Cantwell & Co.—19 Nov. 1902. Stopper or plug with locking device for oil cans, etc. 4.

146. McCabe, W. L.—28 Oct. 1902; U. K. 22,633/01. Shoots with movable sides to act as brakes on descending articles. 2.

147. Young, E. H.—16 Dec. 1902. Water tap with single piston plug and measuring vessel for delivering definite quantities. 1.

148. Jones, R. G.—1 Nov. 1902. Head stall made from three straps and a browband with special fastenings for bit and nose band. 1.

149. Born, A.—9 June 1902; U. K. 24,856/01. Cleaning and scouring wool, hair, etc., by mixing and then separating an absorbent powder. 4.

150. Spreckels, C. A., & Kern, C. A.—13 June 1903; U. K. 24,569/01. Sugar manufacture—purifying composition prepared from specified acids mixed with resins, fats and other organic bodies.

151. McFarlane, J., & Reinohl, D. C.—8 Aug. 1902. Oil is extracted from cotton seed after treatment with hot alkaline and saccharine solutions to loosen the hulls.

152. McFarlane, J., & Reinohl, D. C.—8 Aug. 1902. Oil is extracted from cotton seed as in 151 above, with additional processes of beating, drying, etc.

153. Baron, L. B.—29 May 1902; U. K. 6510/02. Cigarette making machine of the continuous rod type. 2.

154. Power, E. H.—29 May 1902. Oil spray burner for furnaces, etc. 1.

155. Gresham, S. T.—20 Aug. 1902. Railway point and signal rod roller frames made in interlocking sections. 2.

156. Findlay, C. F.—Discharging coal from railway wagons.

157. Jones, G. S.—Thermantidote with endless tattie belt, dipping in water, and fan. 1.

158. Gulam Hyder, Gunmaker.—19 Dec. 1902. Oil vapour or gas incandescent lamps with air and gas heating arrangements. 4.

159. Smith, P. J.—Ships are repaired with the aid of a movable coffer dam. 1.

160. Chadwick, C. J.—Latrine squatting plate of cast iron and bucket frame. 2.

161. Wild, H. W. and T. C.—1 Dec. 1902. Candle shade holder arranged to descend as the candle burns. 1.

162. Bashford, T. B. St. John.—Railway ticket with detachable check portion.

163. Fuller, J. T.—13 June 1902; U. K. 7852/02. Cotton gin with spiked and brush rollers. 4.

164. Young, H. H.—20 Aug. 1902; U. K. 5285/02. Punkahs, knife edge suspension and clip detaching gear for individual members. 1.

165. Sitware, G. A. C.—Punkah pulling steam machine.

166. Lemer, L.—19 Dec. 1902; U. K. 7934/02. Mail bag fastenings with straps and tongues or buckles and seals. 3.

167. Maiche, L. & M.—23 Dec. 1902; U. K. 2489/01. Steam engines are worked with steam which traverses, without condensation, a closed cycle which includes a reheater. 1.

168. Barreto, B. V.—10 March 1903; U. K. 16,794/01. Bricks made from lime mixed with sand, ashes, etc., and hardened by steam after moulding. 4.

169. Baker, G. S.—25 June 1902; U. K. 7495/02. Destructor furnaces, arrangement of flues and consumption of gaseous products. 4.

170. Herr, E. M.—28 Feb. 1903. Railway brakes of electro-magnetic and other types with adjustment for wear. 1.

Invention 1902.

171. Jahar Lal Dhar.—15 Aug. 1902. Shield, acting like a permutation lock, for key holes of locks and safes. 1.

172. Donaldson, P.—Brake for rickshaws and similar vehicles. 1.

173. Rawson, C.—10 Dec. 1902. Indigo manufacture with use of persulphuric acid as oxidant. Refers to 418/01.

174. Imbert, A. C.—Jute, etc., baling press of the toggle lever and screw type. 3.

175. Powell, E. R.—Clamp for gauge glasses on boilers, etc. 2.

176. Jagodeswar Ghatak.—Paddy husking and cleaning mill with revolving disc between cheek plates on horizontal axis. 1.

177. Mond, L.—10 Dec. 1902. Producer gas, washed and purified, is used in gas engines from which the exhaust is utilized for the producer. 4.

178. Zellweger, A.—10 Dec. 1902; U. K. 7718/02. Electric punkah motor with armature oscillating between electro-magnets. 1.

179. Judge, A. S.—6 Feb. 1903. Weighing and discharging box or tray used for unloading salt, coal, etc., from ships. 1.

180. Hodder, A. E.—23 Aug. 1902; U. K. 25,269/01. Blending and mixing apparatus for tea, etc., with revolving container and mixing tray. 1.

181. Augier, C. R.—Pug mill, means for securing knives and capstan head. 3.

182. Hulbard, P.—2 Jan. 1903; U. K. 10,011/01. Locomotive sand distributor with steam nozzle. 1.

183. Electric Lighting Boards, Ld.—13 Aug. 1902; U. K. 10,362/00. Electric incandescent lamp holder with socket and spikes for attachment of flexible electric conductors. 1. Refers to 184/02.

184. Electric Lighting Boards, Ld.—13 Aug. 1902; U. K. 10,361/00. Electric flexible conductors used for attachment of spiked lamps as in 183/02. 1.

185. Electric Lighting Boards, Ld.—13 Aug. 1902; U. K. 20311/00. Electric flexible conductors used for attachment of spiked lamps. 1.

186. Pazzo, E. P. D.—13 Aug. 1902; U. K. 6898/01. Electric race course with model horses driven by electromotors. 1.

187. Blanchard, A.—29 July 1902; U. K. 10,680/01. Oil vapour burner for lamps and stoves with filter and superheater. 2.

188. Ditmar, G.—19 Dec. 1902. Vapour burner for incandescent mantles, arrangement of vaporizer, etc. 2.

189. Gulich, F. N., & White, R. J.—16 Dec. 1902; U. K. 6639/02. Rotary engines, pumps and meters of annular and crescent chamber types. 1.

190. Ryland, H. G.—Grain is stored in old kerosene tins after cleaning, the tins being sealed and charged with carbonic acid.

191. Carlier, A. C. J.—8 Aug. 1902; U. K. 5637/02. Aërating apparatus with revolving container for treating solids or liquids with gas, especially for preparing lead pigments. 1.

192. Louat, P. C.—15 April 1903; U. K. 12,757/02. Steam generator in which highly heated oil or molten solid is continuously brought into contact with preheated water. 5.

193. Clark, P. D. G.—16 Feb. 1903. Tea is sifted or sorted on screens having an elliptical motion. 1.

194. Sri Krishna Joshi.—9 Jan. 1903. Sun's heat utilised by arrangement of mirrors. 1. Refers to 285/99.

195. Trenail, Soc. Anon. pour l'exploitation du trenail et ses applications.—25 Aug. 1902; U. K. 2682/01. Wooden trenails for railway sleepers of screw form with conical heads to receive rail fastening. 1.

196. Atmospheric Products Co.—19 Dec. 1902; U. K. 8230/01. Nitrogen oxides produced from air by electric arc. 3.

197. Lane, F. L.—7 Sept. 1903; U. K. 11,536/01. Railway vehicle either-side brake gear. 1.

199. Lane, F. L.—11 March 1903; U. K. 12,845/01. Railway vehicle hand brake gear. 1.

199. Beck, N., & Dior, R.—21 Jan. 1903; U. K. 15259/01. Carburettor for lighting or heating gas with several oil vessels. 1.

200. Fries, J. W.—19 Dec. 1902; U. K. 6664/02. Yarn and fabric is steamed, dried, etc., in dyeing or other operations as it passes in helical fashion round revolving drum apparatus. 3.

201. Fletcher, C.—5 Aug. 1902. Valves or cocks with self-closing arrangement controlled by leak-off byepass. 2.

202. Leahy, J. J., & Parmiter, A.—6 Jan. 1903; U. K. 13,484/01. Belt shifting gear for gearing consisting of tilting roller. 2.

203. Macdonald, J. K.—15 July 1902; U. K. 22,528/00. Sewing machines, lock stitch, hook feed and governing under thread. 9.

204. Failing, G., & Clinton, W. H.—13 Aug. 1902; U. K. 8066/02. Railway block signalling electric system with signals both on train and on line. 6.

205. Wiggins, F.—23 Sept. 1902; U. K. 26,573/01. Pulleys are mounted and secured on shaft with frictional keys. 1.

206. Davidson, S. C.—18 Oct. 1902; U. K. 8687/02. Air is cooled, filtered, and moistened by wetted porous material through which it is passed by a fan. 1.

207. Imray, O.—25 Feb. 1903; U. K. 23,637/01. Electromagnetic couplings used for driving dynamos on railway vehicles to maintain constant speed. 1.

208. Rose, A. A.—31 Jan. 1903. Railway vehicle couplings of the automatic type. 5.

209. Kendaswamy Nayagar, K. E.—25 Nov. 1902. Waterlift with self-tilting buckets and counterbalancing gear. 1.

210. Westinghouse Brake Co.—21 Feb. 1903; U. K. 22,291/01. Railway automatic vacuum brakes with electro-magnetic arrangements for admitting air to brake cylinder without affecting the vacuum in the train pipe. 2.

211. Jensen, N. F.—6 March 1903; U. K. 19,484/01. Band brake and gear for cycles, motor cars, etc. 1.

212. Lobnitz, F.—6 Jan. 1903; U. K. 4725/02. Rock cutting and breaking, arrangements of the tool lifting devices. 3.

213. Severin, H.—8 Aug. 1902. Glass blowing and moulding machinery. 2.

214. Thermal Storage, Ld.—13 Aug. 1902; U. K. 14,823/01. Steam generators with feed water heating arrangements in steam storage space, applicable to fixed and locomotive boilers. 2.

215. Page, F. T.—20 Aug. 1902; U. K. 14,336/01. Tool for gripping or holding wire, tubes, etc. 1.

216. Wyness, J., Grimes, H. R., & Datta, P. K.—Life buoys made of sola pith.

217. McGlasham, J.—13 Jan. 1903. Sugar manufacture, the juices and liquors are treated at various stages with ferment organism which act on invert sugar only.

218. Stoney, E. W.—12 March 1903. Key and bolt locks and interlocking gear for railway points and signals. 5.

219. Pictet, R. P.—11 March 1903; U. K. 19,254/00. Separating gases, especially oxygen and nitrogen from air by liquefying process. 3.

220. Dastur, A. M.—Cotton gin of the roller type with additional rollers and feeders. 1.

221. Kennicott, C. L.—23 July 1902. Water softening plant, arrangement of chemical feed, tanks, etc. 3.

222. Porter Safety Seal Co.—23 July 1902; U. K. 9692/02. Lead seal arrangements for bags, boxes, etc. 2.

223. Chapman, W.—13 Jan. 1903; U. K. 19,828/01. Electric railways and tramways on the conduit system with means for allowing the plough to be withdrawn from the conduit. 1.

224. Chapman, W.—13 Jan. 1903; U. K. 20,294/01. Electric railways and tramways on the conduit system, arrangement of crossings. 1.

225 Hughes, G. H.—24,113/01. Food for animals prepared from sugarcane pith, molasses and other products of sugar manufacture.

226. Brown, S. G.—4 Oct. 1902; U. K. 7471/00. Telegraphy on the duplex system capable of being duplexed and thus converted to quadruplex, transmitting and recording apparatus. 3.

227. Ashworth, T., & Gaunt, J. S.—13 Jan. 1903; U. K. 2824/01. Spinning, footstep bearings for spindles. 1.

228. Lynde, F. G.—18 Feb. 1903. Wheels for vehicles built of wooden layers with crossed grain. 1.

229. Rawson, C.—Indigo recovered from liquor after settlement by filtration.

230. Cockburn, W. B.—Picketing and linking animals.

231. Patent Regenerative Furnace Co.—30 Jan. 1903; U. K. 12,692/00. Furnaces arranged for smoke consumption with air supplied to vertical perforated pipes behind the bridge. 1.

232. Perkin, W. H., & Whipp Bros. & Tod, Ld.—30 Jan. 1903; U. K. 9695/01. Cotton goods are fireproofed by dipping in a solution of tungstate, an aluminium salt, and an organic acid, the latter being subsequently removed by heat.

233. Cadorini, F.—Elevator buckets for grain, etc., fastened by clips on the belts. 1.

234. Alleyn, H. M.—25 Nov. 1902. Tea manufacture, cutting, breaking, grading, and sifting appliances including rollers and sieving arrangements of various forms. 5.

235. Perman, W. F.—25 Nov. 1902. Tea manufacture, partially rolled leaf is subjected to heavy pressure to burst the leaf cells prior to further fermentation and rolling.

236. Perman, W. F.—25 Nov. 1902. Hand screwpress for treating tea as in 235/02. 2.

237. Purna Chandra Ghose.—30 Sept. 1902. Padlock with two interacting keys and bolt mechanisms. 1.

238. Chapman, W.—21 Jan. 1903; U. K. 19,829/01. Electric railways on the conduit system with means for operating the points of the rails and conduit slots. 3.

239. Linotype Co.—28 Jan. 1903; U. K. 6692/00. Linotype for displayed advertisements and repeat Linotype. 4.

240. Linotype Co.—28 Jan. 1903; U. K. 21,699/00. Linotype machines for tabular matter, spacing and justifying arrangements. 3.

241. Cerebotani, L.—21 Jan. 1903; U. K. 22,711/01. Electric reciprocating apparatus specially applicable for writing telegraph instruments. 3.

242. Maslin, E.—21 Jan. 1903. Steam generator and other furnaces of the producer type with arrangements for preheating the air supply, forced draught and smoke filters. 2.

243. Besson, J. A.—23 Sept. 1902; U. K. 9506/02. Sugar juices and products are treated with ammonia or amines or their compounds, etc., and subsequently with finely divided metals.

244. Leslie, B.—13 Aug. 1902; U. K. 22,292/01. Bucket conveyor apparatus for loading coal in ships. 2.

245. Welsbach, C. F. A.—18 Oct. 1902; U. K. 21,566/00. Electric batteries with cerium salts in the electrolyte. 1.

246. Hepper, H. A. L.—21 Jan. 1903. Key and lock arrangements for points and cross-overs on railways. 1.

247. Armstrong, Whitworth & Co., Sir W. G.—15 Dec. 1903; U. K. 23,306/01. Loading apparatus for coal including wagon lifting apparatus and transfer boxes. 9.

248. Rawson, C.—Indigo manufacture. The liquor is treated with milk of lime, settled and filter pressed before oxidation.

249. Reid, D.—19 Jan. 1903. Tea manufacture. Revolving steam heated drum for drying and glazing. 4.

250. Lamme, B. G.—23 Sept. 1902. Electromotors for single phase alternating currents. 1.

251. Elliot's Patent Lock Envelope Co.—17 Dec. 1902. Envelopes with special arrangement of gummed tongue to be inserted through slots. 2.

252. Walker, J.—27 June 1903. Flood gate with upper and lower pivoted sections connected by linkage to open under excess head. 1.

253. **Deane, H. D., & Judge, C. G. L.—3 March 1903. Green tea is made by subjecting the leaf to steam under pressure and then cooling by water in a rotary drum before drying and rolling. 1.**

254. **Whyte, J.—27 Feb. 1903. Tea cutting apparatus consisting of a perforated drum and reciprocating knife. 2.**

255. Douglas, J.—Axle box for railway purposes. 1.

256. Martin, A. H.—16 March 1903. Railway vehicles with adjustable means for securing conveyances in transit. 2.

257. Hepper, H. A. L.—7 April 1903. Railway working on the key system with electrically controlled apparatus. 2. Refers to 101/01.

258. Moffett Bearing Co.—20 Aug. 1902; U. K. 8077/02. Bearings of the roller and ball type for wheels. 1.

259. Carpenter, J. R.—Steam gauge union pipe for connecting testing gauge to boilers. 1.

260. Vacuum Cleaner Co.—12 Aug. 1902; U. K. 17,433/01. Suction cleaning apparatus for carpets, etc. 2.

261. Brown, L. A.—26 Jan. 1903; U. K. 8431/01. Fusible composition or cement consisting of sand, sulphur, cement, lamp black and colouring matter.

262. Redmond, M. J.—Box for money changers. 3. Refers to 467/99.

263. Flameless Gas Light Co.—20 Aug. 1902; U. K. 10,712/02. Incandescent burner for oil or vapour with multiple exit tubes or passages. 1.

264. Phillips, H. L.—Rail joints with nuts locked by depressions in the fish plates. 1.

265. Parkin, W. H., & Whipp Bros. and Tod, Ld.—3 April 1903; U. K. 23,557/01. Cotton and cotton goods are fire proofed as in 232/02 with additional treatment by sodium silicate and magnesium sulphate.

266. Tosh, J. C.—Smoke from furnaces is lessened by water spraying jets in the chimney. 1.

267. Rakhal Das Khan.—Rice husking mill.

268. Rakhal Das Khan.—Paddy boiling apparatus.

269. Rakhal Das Khan.—Paddy and grain drying mill.

270. Gowlland, G. L.—12 May 1903; U. K. 9317/02. Electric meters. 2.

271. Basrur Bros. & Co.—Coloured powder (gulal) made from a product of the Talipot palm treated with a colouring fluid.

272. Govind Prasad Bhargava.—Boxes or trunks made of sheet steel with double lock. 1.

273. Cook, W. E.—13 Aug. 1902; U. K. 16,513/01. Rotary pumps of the crescent chamber type. 3.

274. Automatic Aerator Patents.—23 Aug. 1902; U. K. 5776/02. Aërating and bottling apparatus. 8.

275. Girling, H. C., & Nicholl, C. W.—27 April 1903. Electricity, safety catch or cut out for broken conductors. 5.

276. Flameless Gas Light Co.—20 Aug. 1902; U. K. 8942/00. **Incandescent burner for gas or oil vapour consisting of a perforated platinum thimble.** 1.

277. Silver, A. H., & Butterworth, A.—9 Jan. 1903. **Rifle and gun sights** with lateral and other adjustments. 1.

278. Wainwright, H. S.—26 Nov. 1902; U. K. 14,262/01. **Locomotive spark** arrestors with spiral guard. 5.

279. Cowan, J.—25 Oct. 1902; U. K. 9924/01. **Steam generators of the** water tube type with arrangement of partitioned drums. 4.

280. Cowan, J.—25 Oct. 1902; U. K. 16,436/01. **Steam generators of the** water tube type with arrangements of tubes and drums to prevent priming. 8.

281. Green, J. J.—4 March 1903; U. K. 12,539/02. **Cotton seed** is freed from fibre by heating and agitating under a spray of strong sulphuric acid followed by washing and drying. 1.

282. Lowy, J.—6 Dec. 1902; U. K. 2131/02. **Candles** with alcohol incorporated in the paraffin or other material.

283. Haviland, J. & F. H., & Farmer, J.—29 Sept. 1902; U. K. 15,275/00. Pneumatic grain elevator with dust trapping devices. 2.

284. Douglas, J.—Railway vehicles with pneumatic or liquid springs. 2.

285. Dutton, S. T.—3 Sept. 1903. Railway point and signal interlocking gear of mechanical form. 6.

286. Thulasi Doss, K.—Water lift of picotah type.

287. Crozier, H. M.—20 Sept. 1902. Locking device for hasp and sliding bolts. 2.

288. Young, D. J.—10 Feb. 1903. Shower bath of portable form. 1.

289. Suraj Narayan Verma.—14 May 1903. Water level with graduated end tubes and flexible connection. 1.

290. Alleyn, H. M.—Manure for tea cultivation containing iron, potash, magnesia, lime and manganese, with limited sulphates and chlorides.

291. Todd, J. C.—31 March 1903. Fibre preparing machines of the chain feed and roller type. 4.

292. Grey, C.—14 April 1903. Clip with lock for single rifles. 1.

293. Baildon, S. R.—8 Sept. 1902; U. K. 1591/01. Punkah adjustments for suspension, size, etc., and detachable connections to pulling machine. 1.

294. Hormusji Khursedji Bana.—7 Feb. 1903. Sprinkler for fire extinction operated by expansion of mercury, etc. 2.

295. Walker, J.—23 Feb. 1903. Floodgate eccentrically pivoted to open and close automatically. 1.

296. Chadwick, C. J.—Nightsoil cart receptacle with locking lid. 3.

297. Williams, A.—Perpetual motor with weights moved along wheel spokes by crew bearing as the wheel revolves. 1.

298. Fritz, F.—16 Sept. 1902. Peat fuel prepared by drying, compressing and coking peat. 1.

299. **Kirsch, B., & Pessl, A.**—28 Feb. 1903; U. K. 12,953/02. Braiding machines. 3.

300. **Boeken, H. J.**—28 Feb. 1903. Decorticating machine with revolving scutching roller and holding apparatus for the fibres. 1.

301. **Bayldon, O. H., & Morris, H. E.**—10 Sept. 1902; U. K. 51/02. Oil gas burner, specially for motor cars. 1.

302. **Sullivan, A. W., & Renshaw, W.**—25 Nov. 1902. Railway vehicle sliding doors opened and closed by pneumatic means. 5.

303. **Heatley, G. S.**—10 Sept. 1902; U. K. 8970/02. Bedsteads and mattresses with sanitary convenience attachments. 1.

304. **Badsche Anilin & Soda Fabrik.**—U. K. 1789/02. Indigo is mixed with starch or other inert material and otherwise treated so that it does not require grinding before use.

305. **Smith, D. R. & M. L.**—20 Sept. 1902. Dentistry—making vulcanite dental plates.

306. **Aspinall, T.**—17 Sept. 1902; U. K. 2447/02. Sizing and finishing fabrics with starchy materials treated with alkalis, acids, leading and tanning materials.

307. **Packham, F. W.**—Compass course indicator with indication on adjustable endless tapes. 2.

308. **Hooper, E. D. M.**—18 Oct. 1902; U. K. 6170/02. Latch fastenings for doors, windows, etc., with clamping additions. 1.

309. **Martin, A. H.**—Railway scotch block with lock for securing vehicles. 3.

310. **Oxlade, R., & Richardson, W. J. W.**—31 March 1903; U. K. 9229/02. Telegraphs with audible signals. Refers to 360/01.

311. **Alves, J.**—19 Dec. 1902; U. K. 3050/01. Furnaces for steam boilers with regulated supply of heated air through the bridge for smoke consumption. 2.

312. **Tropenas, A.**—3 March 1903. Steel manufacture, construction of small converters. 2.

313. **Phillimore, Mrs. A. E.**—3 March 1903; U. K. 13,444/01. Bedsteads with extensible sides. 1.

314. **Dubern, G.**—17 June 1903. Ice manufacture on the can system, removal of air and sediment. 2.

315. **Gold, G. J. V., & Schwabe, L.**—19 Nov. 1902; U. K. 4313/01. Invoice forms with tab and perforations. 1.

316. **Holland, G. E., & Johnston, H.**—23 Dec. 1902; U. K. 16,894/02. Bucket elevator, adjustable, mounted on and removable from truck used for loading ships, etc. 3.

317. **Lever, J.**—2 Jan. 1903; U K. 20489/01. Cooling towers for condenser water constructed with layers of vertically placed drain pipes. 2.

318. **Seymour, J.**—25 Nov. 1902; U. K. 13,750/02. Gas and air are mixed in a revolving drum apparatus with measuring attachments. 3.

319. **Atkinson, J. S.**—Punkah-pulling arrangements with iron pole and differential pulley.

320. **Wright, Mrs. F. L.**—Teapot with detachable decorative metal casing. 1.

321. **A. M. Dominick & Co.**—Agave fibre extracting appliance consisting of knife adjusted on a table by screws and special hand tongs. 2.

322. Improved Electric Glow Lamp Co. & Harrison, H. T.—11 March 1903; U. K. 3157/02. Electric arc lamps of the enclosed type with solenoid and float feed. 2.

323. Kitson, A.—17 March 1903; U. K. 13,785/02. Oil vapour lamps and stoves with thermostatic regulator for oil supply. 1.

324. Roberts, J. D.—5 Feb. 1903. Oil engine vaporizer and ignition tubes are heated by solid fuel. 3.

325. Moore, W. L., & Bromwell, J. H.—11 March 1903; U. K. 16,304/02. Air is cooled, dried and purified by passing it over ice and then through tubes immersed in oozing mixture. 2.

326. Canning, S. H., & Maples, J. R.—Glass globes, etc., for electric incandescent and other lamps are made with a corrugated surface by winding a rod inside or outside during manufacture. 1.

327. Sayer, R. C.—18 Feb. 1903; U. K. 3213/02. Pipes, frames, steam generators, etc., are made in parts drawn together by the contraction of metal rods, wound on hot. 1.

328. Khirod Chandra Shadkhan.—Lubricated brasses for bearings of oil mills. 1.

329. Easdown, R. H.—Seal lock with destructible paper label for mail bags. 1.

330. Foreign McKenna Process Co.—10 July 1903. Rails are rerolled into other sections in a mill adapted to groove and then flatten the head or bulb. 2.

331. Syed Jelaluddeen.—Type made by photozinco and electrotype methods.

332. Meares, J W.—Electric meters.

333. Hislop, R. C.—Solder economising.

334. Condict, N. W.—3 March 1903. Refrigerating apparatus of the ammonia absorption type, construction of the generator. 2.

335. Cooper, J. E.—31 March 1903; U. K. 4340/00. Railway vehicles. Improvements on the anti-friction arrangements of 127/99, and combination with springs. 4.

336. Tychonski, B., & Dollinger, K.—18 Nov. 1902; U. K. 16,121/02. Telegraph and telephone systems and calls in which earth cells are employed and the conductor is uninsulated. 2.

337. Michell, H. C.—26 Nov. 1902; U. K. 4969/01. Flake mica is produced from lumps by drying, crushing rollers and air separating apparatus. 2.

338. Michell, H. C.—26 Nov. 1902; U. K. 4970/01. Non-conducting coverings blocks and slabs moulded from layers or mixtures of mica with a binding agent and filling materials. 1.

339. Biggs, A. A.—Water crane for railways, etc., with self-closing cock arrangement in movable arm. 1.

340. Partridge, G. W.—11 March 1903; U. K. 15,748/00. Electric fuses, switches, etc., with blow-out devices containing fluid under pressure or explosives. 1.

341. Hislop, R. C.—27 April 1903. Soldering tins with attachment for holding small pieces of solder and guiding the tool. 1.

342. Greengrass, C. J.—16 Jan. 1903. Clip worn on the little finger to support the hand and to improve writing. 1.

343. Lodge, O. J., & Muirhead, A., & Robinson, E. E.—27 May 1903; U. K. 13,521/02. Wireless telegraphy. Coherer with point or wheel dipping through an insulating film into mercury. 1.

344. Plaissetty, A. M.—3 March 1903; U. K. 20,747/01. Incandescent gas, etc., mantles are made from cellulose mixed in soluble state with hydrated oxides.

345. Trotter, C. A.—18 Feb. 1903; U. K. 12,098/02. Sighting and range finding appliances with three movable sights primarily intended for rifles. 2.

346. Fordyce, H. L. D.—17 March 1903. Box lids are secured by bands, pins and seals. 1.

347. Goodwin, F.—Badminton, etc., bat with handle attachment for holding dress pins, etc.

348. Ratanji, P.—Sliding sluice gate fitted with roller bearings. 1.

349. Jones, R. G.—20 March 1903; Specification amended. Foot shackle for tethering horses. 1.

350. McCabe, W. L.—24 March 1903. Conveyors of the endless belt type with adjustable side guides for material. 1.

351. Stroudley, F. W.—17 March 1903; U. K. 18,586/00. Fire box stays for locomotive marine, etc., boilers with ball and socket connection in screw fixing caps. 1.

352 Wessel, K.—8 June 1903. Mattress filling or stuffing machine. 4.

353. Perfection Blind and Lock Stitch Sewing Machine Co.—2 March 1903. Sewing machine for blind stitching invisible on one side of the material. 3.

354. Wallace, H. L.—25 Nov. 1902. Self-closing push valves, closing after definite quantities are delivered. 2.

355. Strowger Automatic Telephone Exchange.—25 Nov. 1902. Telephone exchange. 11.

356. Dobree, O. E.—Indigo manufacture. Air is injected in the tanks to circulate and oxidise the material. 1. Refers to 382/99.

357. Oliphant, W.—12 March 1903; U. K. 17,371/01. Aërating and discharging or drawing off liquids. 1.

358. Linotype Co.—2 Jan. 1903; U. K. 24,765/01. Printing or blocking on coated or varnished board, etc., with gold, silver or other powders. 1.

359. Ewing, C.—Locomotives and vehicles, running partly on a single rail and partly on the road as in 121/93 with flanged steering wheels. 1.

360. Denobundhu Mukerjee.—9 Jan. 1904. Continuous sizing, drying, warping and beaming arrangements for hand power. 1.

361. Liardet, A. C. C.—25 Oct. 1902; U. K. 19,426/00. **Bottle stopper with float valve arrangement for preventing refilling. 1.**

362. Nichols, F. A.—Detecting defects in solid drawn ammunition cases.

363. Carmichael, R. S., J. H. & F. R.—31 March 1903; U. K. 5998/02. Textile materials are oiled, loaded and finished or sized by a single process in a bath containing case in soap, alkalies, oils and loading material.

364. Ede-Clendinnen, W. A.—18 Feb. 1903. Cigar holders and pipes with nicotine trap in stem. 1.

365. Smith, A. D.—26 Nov. 1902; U. K. 25,997/01. Railway vehicle central buffers and automatic couplings. 3.

366. Stromeyer, L. C. P.—13 June 1903. Paper clip using slotted corner cards. 1.

367. Jackson, W.—28 April 1903; U. K. 7687/02. Tea rolling apparatus with sliding staves in oval chamber arranged with discharge doors and means for tilting. 2.

368. Hucks, W.—28 April 1903; U. K. 23,558/01. Bottling apparatus for aërated liquids with guard. 2.

369. Hucks, W.—28 April 1903; U. K. 2883/02. Bottling apparatus for aerated liquids with means limiting escape of gas and liquid. 1.

370. Deakin, W. H.—Railway point and signal interlocking gear of mechanical type. 1.

371. Douglas, N.—Road vehicles with endless rails laid by the wheels. 1.

372. Hale, A.—Sewage purification.

373. Dubern, G.—1 May 1903. Refrigerating machinery of the gas compression type, pump details. 2.

374. Macbeth, J. B. K.—18 April 1903. Thermantidote apparatus, bicycle driving gear and arrangement of fans, tats and water supply. 4.

375. Lowe, T. S. C.—29 April 1903; U. K. 7826/02. Coke ovens of the chamber types with arrangements for producing illuminating or other gas. 6.

376. Manners, S. H.—17 Dec. 1902. Sail and shade attachment for bicycles, boats and vehicles. 2.

377. Batchelor, E.—29 June 1903. Agricultural plough like tool for weeding purposes. 1.

378. Hull, J. H.—24 Nov. 1902. Bearings with dry lubricant for punkah wheels. 1.

379. Kelly, J. D., Fisher, D. P. & Wix, N. V. G.—21 April 1903. Ventilating buildings with several currents of treated air under compression. 1.

380. Taylor, J.—18 Feb. 1903. Air humidifier for mills, etc., with spray and air baffles. 1.

381. Khosla, K. K.—Pneumatic tyres with leather band between inner and outer tubes.

382. Grieve, J., & Alleyn, H. M.—19 Jan. 1903. Tea manufacture; revolving drum and revolving disc apparatus for grading, sifting, finishing and polishing green or Oolong teas. 4.

383. Grieve, J., & Alleyn, H. M.—19 Jan. 1903. Tea manufacture; apparatus similar to 382/02 for polishing, etc., black tea and blending with green tea. 4.

384. Biggs, R. H. W.—14 May 1903; U. K. 18,779/01. Sheep clippers. 1.

385. Perkin, W. H., & Whipp Bros., & Todd, Ld.—14 May 1903; U. K. 8509/02. Cotton and cotton goods are fire proofed as in 232/02 and 265/02, a large additional number of chemicals being mentioned.

386. Perkin, W. H., & Whipp Bros., & Todd, Ld.—14 May 1903; U. K. 9620/02. Cotton and other textile goods are fire proofed by further modifications of the processes described in 232, 265, and 385 of 1902.

387. Ansell, C. W.—24 Aug. 1903. Target and trolley apparatus for portable and other rifle ranges. 1.

388. Urquhart, C.—Butter manufacture.

389. Zielenziger, S.—16 Dec. 1902; U. K. 23,222/00. Lamp with incandescent mantle and long chimney. 1.

390. Young, R.—Railway wagon attachment for raising the sides to increase capacity. 1.

391. Sayer, R. C.—28 March 1903; U. K. 18,961/02. Expanding wheels or pulleys. 4.

392. Hathorn, C. H. V.—27 May 1903. Pipes and tubes are made with the aid of cores or shapes of split bamboo, wire mesh, etc., plastered with cement or clay and dried or burnt, with or without removal of the core. 5.

393. Schultz, C. S.—8 July 1903. Trolley head for electric railways and tramways with means for aligning the wheel with the wire. 4.

394. Fiedler, M.—8 Oct. 1903; U. K. 6159/01. Explosives containing potassium chlorate and picrate, celluloid and resin or other carbonaceous material. Also construction of blasting cartridge cases, etc. 2.

395. Owens, M. J.—26 Nov. 1902. Glass manufacture, machine for gathering and shaping the metal, especially for blowing bottles. 5.

396. Fraser, J. P. & N.—6 Feb. 1903; U. K. 22,370/01. Spinning, gill boxes or frames for flax, jute, etc. 2.

397. Phillips, J.—28 April 1903; U. K. 13,142/01. Electricity, dynamo commutator grinding or trueing attachments. 2.

398. Godfrey, A.—27 Nov. 1903; U. K. 13,804/01. Cigarette cases or shells made from paper in folding and gumming machine. 4.

399. Taylor, G. H.—Railway wagon door lock with cam and key. 2.

400. O'Brien, C.—Jute steeped in a mixture of Permak's bleacher, ammonia, charcoal, glycerine and acid.

401. O'Hara, J. G. M.—26 Aug. 1903. Railway wagon and other door locks of the permutation and key type. 1.

402. Fowler, F. D.—Railway wagon door lock of permutation and key type. 1.

403. Hislop, R. C.—27 April 1903. Soldering machine for joints of tins. 1.

404. Young, J. E.—23 May 1903. Power gearing for hay presses, etc., with roller turned by lever or hand wheel winding on to anchored ropes. 6.

405. Gahagan, R. H.—10 July 1903. Sluice gate or valve with counter weight and guides for automatic action. 1.

406. Lundholm, C. O., & Nobel's Explosives Co.—26 May 1903; U. K. 14,231/01. Explosives of the nitro-glycerine or nitro-cellulose class with di-amyl-phthalate addition.

407. Greengrass, W. J.—Lubricating railway journals by revolving brushes in the axle boxes. 1.

408. Judge, C. G. L.—26 May 1903. Tea manufacture. Green tea made by subjecting the leaf to motion and heat in closed vessels. Concentric revolving drum apparatus used. 1.

409. Flanagan, C. S.—Railway combination tool used as a rail gauge, level, etc. 1.

410. Westinghouse, G.—12 May 1903; U. K. 21,807/02. Refractory basic lining material for lining converter and other furnaces. 1.

411. Hutcheson, J. A.—26 May 1903. Tobacco stripping machines. 5.

412. Cowan, J.—12 May 1903; U. K. 5202/02. Water tube boiler casings arranged for heating the air supply to the furnace. 4.

413. Cotton Seed Co.—12 May 1903. Cotton seed is treated by crushing and jigging sieves to remove and ball the fibre and to prepare the meal free from fibre. 1.

414. Cotton Seed Co.—12 May 1903. Similar to 413 above. 1.

415. American Tobacco Co.- 12 May 1903; U. K 6856/02. Cans or boxes with cutters for opening provided in loose lids. 1.

416. Walker W.—18 Dec. 1902; U. K. 19,728/02. Railway chair key of metal. 1.

417. Baum, G., & Boyer, F.—21 April 1903; U. K. 18,257/02. Weaving, shuttle boxes for carpet looms. 2.

418. Mishra, V. B.—Rotary engine of the spherical chamber and vane type. 9.

419. Dass, K. C.—Tap for rats, etc., with counterbalanced trap door over a box. 1.

420. Foss, K. M.—Fuel briquettes made from sawdust, paddy husk, waste fibre, etc., impregnated with petroleum or its products, with additions of coal alkalies, cement, etc.

421. Taeggi-Piscicelli, R.—10 June 1903; U. K. 18,637/02. Postal system comprising overhead electric railway for collecting and distributing letters, parcels, etc., and automatic post marking and stamp obliterating devices. 22.

422. Camara, M. L. de la, & Egana, F. R.—26 May 1903. Cellulose or paper stock is prepared from sugarcane trash and similar material by treatment with hot soda solutions followed by a bleach.

423. Vacuum Brake Co.—27 May 1903; U. K. 26,457/01. Railway vehicle vacuum brake cylinder valves and train pipe valves. 5.

424. Wainwright, H. S.—25 April 1903; U. K. 2710/02. Spark arrestors for locomotives arranged to give access to fire tubes. 3.

425. Greengrass, C. J., & Carrington, C. R.—29 Aug. 1903. Railway signals for electrically indicating failure of bridges. 1.

426. Fitzgerald, R.—4 March 1903. Railway vehicle fluid pressure brakes arranged for proportioning the braking pressure to the load. 5.

427. Jennings, E.—7 Nov. 1903. Chapaties made and baked without handling by a combination of rollers for rolling and cutting the dough into cakes and travelling wires to carry them through the oven. 6.

428. Cave, R. H.—18 May 1903. Indigo manufacture. Pure cultures of specified bacilli are added to the steeping water and to the fecula.

429. Wernigg, A. C.—8 May 1903. Crucible furnace for brass and iron, of annular form with movable hearth to facilitate charging and discharging. 2.

430. Hamilton, R. S.—13 Jan. 1903. Cultivating machine for tea, with adjustable shares and reciprocating cutters. 1.

431. Warr, G. C., & Wright, W. T.—18 Feb. 1903; U. K. 22,602/00. Vegetable fat substitute for butter, is extracted from coco and other oil nuts by heating, pressing, washing and filtering.

432. Stanley, J. C. W.—25 April 1903. Cotton gin of the saw type with a reciprocating hinged breast board. 1.

433. Hatton, T. C.—3 June 1903; U. K. 16,533/02. Carriage spring end connections for road vehicles. 1.

434. Mirza Akbar Ali Khan.—8 July 1903. Water lift of the windlass type with counterweight running on an incline, and bucket tipping attachment. 1.

435. Pophale, N. Y.—Winding machine with horizontal skeleton drum and automatic thread guide. 1.

436. Contractor, D. B.—27 April 1903. Wheels are secured to their axles by set screws. 2.

437. Paranjape, A. B.—30 April 1903. Rocking fire bars for boiler furnaces. 2.

438 Lajard, C. P. de.—29 May 1903. Wave motor with floats of which the motion of rise and fall is transmitted through ratchet gearing. 2.

439. Marconi's Wireless Telegraph Co.—27 May 1903; U. K. 10,245/02. Wireless telegraphic magnetic receivers of the moving band or varying magnetic field type. 1.

440. Bland, H.—8 June 1903. Gas compressors in which the pistons are operated through toggle gear to give the maximum pressure at the end of their stroke. 6.

441. Robertson, J. D.—Engine room telegraphs with electric indicator connections from the reversing lever. 1.

442. Telles, A. C da Silva.—U. K. 10,313/02 Textile fibres, etc., prepared from specified Brazilian plants by ordinary processes.

443. Galloways, Ld.—4 Feb 1903; U. K. 7365/02. Steam superheaters or dryers with multiple tubes. 1.

444. Stark, A. M.—11 May 1903; U. K. 14,423/01. Electric distribution three wire systems combined with telephones and telegraphs. 1.

445. Vivian, W. & J.—18 Dec 1902; U. K. 19,041/01. Valves, with partial rotation, for rock drills and other fluid pressure engines. 1.

446. K. T. Dass.—Water lift.

447. Forbes, W. C.—29 May 1903. Distance and course recorder for ships in which a trace is made on a chart by combined action of a compass and a screw in a water passage. 2.

448. Gowlland, G. L.—29 May 1903; U. K. 18,962/01. Coin freed electric prepayment meters. 1.

449. Rose, A. A.—24 March 1903. Tile of hexagonal form with flanges and channels. 2.

450. Hayes, F. W.—18 Aug. 1903. Punkah for swinging or rocking chairs, cots, etc., automatically worked. 1.

451. D'Rozario, E. R., & Smith, C. C.—21 Jan. 1903. Furnaces for Lancashire boilers with double bridge and air supply for smoke consumption. 1.

452. Brummer, D.—4 Feb. 1903; U. K. 23,771/01. Portable building construction with jointed frames and panels for walls, ceilings, etc. 4.

453. Dolter Electric Traction, Ld.—16 April 1903; U. K. 667/02. Electric railways and tramways on road contact system with switches operated by electro-magnets on the vehicles. 3.

454. Connstein, W.—29 July 1903; U. K. 22,111/02. Fats are decomposed into their fatty acids and glycerine with the aid of ferments of certain plants.

455. Schouboe, N. C.—4 July 1903; U. K. 22,652/02. Railway sleepers of concrete, strengthened with metal and having wood plugs embedded. 1.

456. Farlow, F. F.—25 Aug. 1903. Railway signals with hydraulically operated semaphore for indicating failure of bridges. 1.

457. Hains, H. H.—20 July 1903. Leading marks for navigation, such as posts, buoys, etc., are provided with light-reflecting surface to enable them to be seen more easily. 4.

458. Badische Anilin & Soda Fabrik.—23 June 1903; U. K. 1789/02. Indigo is prepared for storage, transport, and use by mixing the paste with starch or other inert material and slow drying.

459. Heimann, H. G.—21 Jan. 1903. Punkah pulling machine with electric or other motor connected to the pulling lever through an adjustable crank to regulate the stroke. 3.

460. Harvey, F. M. & H. C.—30 March 1904; U. K. 8255/02. Railway vehicle automatic couplings. 2.

461. Veale, C. J.—Planimeter. 1.

462. Knapp, F. A.—27 April 1903; U. K. 4116/02. Ship of tubular form for cargo such as grain with unloading arrangements of conveyors, etc. 1.

463. Boardite Co.—29 Jan. 1903; U. K. 1580/01. Wheel discs or centres for railway or other use are made by compressing a mixture of sawdust and magnesium compounds with or without farina.

464. Holland, G. E., & Johnston, H.—4 April 1903. Chain elevator, adjustably mounted on wheel truck, for loading or unloading bales, etc. 1. Refers to 316/02.

465. Holland, G. E., & Johnston, H.—4 April 1903. Loading and trimming ships with arrangements of revolving and telescopic shoots. 1.

466. Fawcett, Preston & Co.—29 July 1903. Pumps and regulators for hydraulic pressure supply. 3.

467. Wakefield, G. E. C.—Spear or lance with telescopic handle. 1.

468. Harley, J. H. R.—25 July 1903. Tent with folding frames. 2.

469. Syed Hozoor Meerza.—8 June 1903; U. K. 19,015/02. Hats, helmets, etc., with double crown containing a ventilating fan driven by a storage battery or pneumatic ball. 1.

470. Steel, A.—Cotton gin rollers made of paper or like material.

471. Watson, J.—Road vehicle brake with wire or rope connection to handle or treadle. 1.

472. Henderson, W., & Dallas, J.—6 Feb. 1903; U. K. 20,775/01. Spinning doffing arrangements for roving frames, etc. 3.

473. Henderson, W., & Dallas, J.—6 Feb. 1903; U. K. 26,399/01. Spinning; spring hinged top cover or steadying plate for spindles of roving frames, etc. 1.

474. Wieda, E. F. W.—4 July 1903. Mixing machine for dough, etc., with beaters oscillating between knives in a trough. 3.

475. Porter, J. W.—5 Sept. 1903. Target moving apparatus for miniature ranges. 1.

476. Pound, R.—16 June 1903. Coir dholls or bundles are wound with string in a multiple roller machine. 3.

477. Gibbs, G.—4 March 1903. Controlling, signalling and braking arrangements for electric railways. 2.

478. Raja Babu, Lala.—18 July 1903. Chess recording attachment to chess board for recording moves and times. 6.

479. Kirkby, C. J.—Cartridges loaded with small charges for use on miniature ranges. 1.

480. Sherardizing Syndicate.—4 Feb. 1903; U. K. 9927/01. Metal articles are coated with zinc or its compounds by heating in contact with the powdered metal.

481. D'Santos, R. J.—7 April 1903. Paddy husking machine of the dhenki type. 1.

482. Hartmann, J. H. F. L.—8 July 1903; U. K. 25,056/02. Grain decorticating machine with cylinders revolving against adjustably fixed surfaces of leather. 2.

483. Hardy, W. B.—8 July 1903; U. K. 25,041/02. Water purified by electrolytic process using soluble aluminium poles. 1.

484. Ulander, J. J.—8 July 1903; U. K. 21,112/01. Milk strainer or filter with means for holding wire cloth with cotton, wool, etc., between. 3.

485. Chitty, H.—8 July 1903; U. K. 9397/02. Dynamos with ventilating passages in armatures and field magnets. 1.

486. Corrington, M.—11 May 1903; U. K. 23,908/02. Safety valves allowing escape at diminishing or increasing rate from pressure chambers, railway air brake systems, etc. 1.

487. Wernigg, A. C.—Axle boxes for railway vehicles with sliding lid. 1.

488. Laird, J.—Rope gearing.

489. Kelkar, S. P.—Winding machines consisting of a skeleton drum with automatic thread guide worked by cams. 4.

490. Panton, W.—23 Nov. 1903; U. K. 3286/01. Cop winding machine with quick-threaded screw on spindle for attaching nut or cap. 1.

491. Bissen Dut.—Sugarcane mill with three vertical geared rollers with driving roller flanged. 1.

492. Parker Match Co.—5 Feb. 1903; U. K. 14,299/02. Matches made by dipping one or both edges of a veneer strip which is then cut transversely. 2.

493. Sutcliffe, T.—21 July 1903; U. K. 26,122/01. Aërating and bottling machine with the agitator forming a continuation of the pump piston. 1.

494. Sandberg, G.—21 July 1903; U. K. 393/02. Tallow substitute for candles, soap, lubricant, etc., prepared from train oil by treatment with sulphuric acid, steam and distillation.

495. Wolff, H.—28 July 1903. Hurricane lamp; details of chimney raising mechanism, oil reservoir, frame, etc. 1.

496. Honey, A. A.—2 May 1903; U. K. 26,557/02. Locomotives or railway vehicles with electro magnetic arrangements for increasing traction. 2.

497. Igel, H.—U. K. 20,598/01. Rotary engines of axial shaft and reciprocating piston type. 1.

498. Subodh Chandra Mukhopadhya.—27 July 1903. Pen with looped wires to form ink reservoir. 1.

499. Bell, O. M. D.—18 April 1903. Shoes, for horses and other animals, made of leather reinforced by metal plates. 1.

500. Braithwaite, J. H.—4 March 1903; U. K. 6767/02. Free wheel variable gearing and clutch for cycles, motor cars, etc. 3.

501. Hunter, W. Y.—4 March 1903. Tent and valise combination and fittings. 3.

502. Judge, C. G. L.—26 Aug 1903. Tea manufature; green tea is panned in a concentric drum apparatus, the inner drum being heated and the outer one ventilated, one or both being revolved. 1.

503. Lennox, W.—28 July 1903. Tea manufacture; ball breaking and sifting machine consisting of a screen drum containing revolving beaters. 2.

504. Salig Ram.—Book with sealed guards used for filing papers.

505. Jepson, J. T.—24 March 1903; U. K. 2088/02. Railway wagons of large capacity with eight or twelve wheeled bogies; arrangements of inclined floors and end and side doors for quick discharge. 15.

506. Ferguson, J. W. & G. W.—29 July 1903. Brick moulding and cutting machine with plungers, etc., operated by cams. 1

507. Robertson, R., & Rintoul, W.—11 Aug. 1903; U. K. 25,994/01. Acetone is recovered in the manufacture of explosives and celluloid by absorption from the air by bisulphite solutions which are subsequently distilled. 1.

508. Churchill-Shann, M.—1 Aug. 1903. Punkah pulling machine with epicyclic and crank gear, and with spring toggle attachment for rope. 2.

509. Abbott, A. H.—Punkah pulling machine with worm and crank gearing and double suspension for punkahs. 3.

510. Lucas, P., & Allgemeine Beleuchtungs and Heizindustrie Akt. ges.—19 Feb. 1903; U. K. 18,844/02. Oil lamps with incandescent mantles, construction of burner, etc., to obviate soot. 1.

511. Purser, A., Jenkins, F. W., & Millar, C. R. M.—Rock drill sharpening machines.

512. Blower, T. H.—Compositions of mercury, chloride, potassium permanganate, camphor, chiretta and quassia for preserving wood, etc., against white-ants.

513. Hancox, E.—4 March 1903; U. K. 19,984/01. Rivetless pipe manufacture—sharping edges of plates which are bent and connected by M. or H. section bars. 9.

514. Gamlen, R. L.—18 March 1903; U. K. 17,840/00. Boiler incrustation is prevented and removed by introducing fibre and sodium silicate with feed water.

515. McSwiney, W. D.—11 May 1903; U. K. 15,098/02. Saddle girth with adjustment for length. 1.

516. Young, H. H.—11 May 1903; U. K. 12,871/02. Electric solenoid reciprocating motor, applicable for pulling punkahs. 1.

517. Stevens, T. G.—19 May 1903; U. K. 24,143/01. Spring toggle lever supports for carrying vehicle bodies on their underframes. 3.

518. Greengrass, C. J.—Rifled bullet with aluminium base for smooth bore guns. 1.

519. Harris, J.—11 May 1903; U. K. 26 453/02. Door, etc., bolts with plate recorded to hold the bolt knob when open or closed. 1.

520. Hodgson, C.—25 Sept. 1903; U. K. 25,849/02. Railway point working and locking apparatus allowing vehicles to trail through. 1. Refers to 326/93.

521. Coath, D. D.—10 July 1903. Landing stages, bridges, etc., of pontoon type with platform mounted so that the pontoons can be turned for painting, etc. 1.

522. Sheffield, G. H., & Twinberrow, J. D.—11 Aug. 1903; U. K. 19,446/02. Railway hopper wagon sliding doors with means for operating them simultaneously or independently. 8.

523. Lumely, M., & Bourseau, J. B.—14 April 1903. Pressure reducing valve. 1.

1903.

1. **Kitson, A.**—29 April 1903; U. K. 23,458/01. Oil vapour lamps with incandescent burners. 1.

2. **Auldjo, L. C.**—11 May 1903; U. K. 14,874/02. Steam generators with non-conducting jackets and tubes arranged to promote circulation of water. 1.

3. **Gaze, W. H.**—18 Feb. 1903. Gas is enriched in a carburetting apparatus with benzine, gasolene, ether, and nathene. 1.

4. **Mirza Mohamed Ali Khan.**—8 Aug. 1903. Tread mills for driving punkahs, etc. 1.

5. **Gibbs, G.**—10 Aug. 1903. Railway signalling system and apparatus for electric railways in which the demand for power on a section controls the position of the signals. 3.

6. **Hewitt, P. C.**—10 Aug. 1903. Electric single or polyphase currents rectified with the aid of reluctance at the negative electrode in apparatus containing several positive electrodes. 2.

7. **Pringle, P. J., & Kennedy, R.**—Convertible tent, overcoat, etc. 2.

8. **Hefferan, A. J.**—8 July 1903. Firebars of deep tapered section. 1.

9. **Hodgson, C.**—4 Aug. 1904. Railway point and signal key interlocking frame as in 74/96 with master key arrangements for controlling the combinations. 1.

10. **Young, H. H.**—11 May 1903; U. K. 10,994/02. Spring connection in connecting rods for converting rotary into reciprocating motion for punkahs, etc. 1.

11. **Beresford, W., & Eccles, J. H.**—6 June 1903. Weighing machine for weighing and delivering successive quantities of granular or other materials. 4.

12. **Channon, J.**—6 May 1903; U. K. 28,326/02. Seal lock or fastening applicable for straps of mail bags, etc. 1.

13. **Proskey, W. S.**—25 July 1903; U. K. 21,465/02. Oil vapour lamp with incandescent burner and carburettor. 1.

14. **Coath, D. D.**—Artesian well sinking and lining arrangements. 1.

15. **Perfect, G.**—Sugar-cane mill frame construction. 2.

16. **Hemingway, J.**—Wheel tapping device for testing railway wheels attached to rails and actuated by passage of wheels. 1.

17. **Lawrence, S. S.**—7 March 1903; U. K. 23,553/02. Case for field glasses, etc., with spring catch to secure the contents. 1.

18. **Berry, J.**—29 April 1903; U. K. 28,061/02. Tents for field hospital use with means for ventilation and double cover for summer and winter use. 2.

19. **Creed, F. G., & Coulsen, W. A.**—21 May 1903; U. K. 1061/02. Telegraph receiver in which the message is received as a perforated strip. 2.

20. **Britten, T. J.**—11 Aug. 1903. Rock drill attachment for laying dust in drilling and blasting. 1.

21. Dempster, R.—16 June 1903; U. K. 23,413/02. Oil gas made by vaporizing oil in retorts and fixing in superheaters fitted in the furnace casing. 2.

22. Mitchell, T. E.—18 Aug. 1903; U. K. 8296/01. Weaving. Picking motions for narrow fabric looms. 1.

23. Collins, H. & C. W.—5 Nov. 1903; U. K. 1402/02. Electric tramways; the conductors points are operated electrically together with the rail points. 1.

24. Young, J. T., & Wren, J.—18 Aug. 1903. Spring catch for railway carriage and other sliding windows. 1.

25. Hydraulic Brick & Stone Co.—6 June 1903; U. K. 20,534/02. Bricks and artificial stone are made with apparatus in which lime is slaked and mixed with other materials. 2.

26. Fletcher, F. J.—12 May 1903; U. K. 9586/02. Aërating apparatus for beer, water, etc., consisting of trunnioned vessel with pump and spraying baffles. 1.

27. Fletcher, F. J.—12 May 1903; U. K. 11,142/02. Bottling machine with corking, stoppering and aërating attachments. 1.

28. Dennett, R. J.—Railway points and crossings.

29. Naylor, W.—Portable lamp and stove. 1.

30. Harrington, B. R.—Destructor furnace; charging, flue, valve and boiler arrangements. 2.

31. Shely, W. A., & A. M.—18 Aug. 1903; U. K. 28,694/02. Breaking and scutching apparatus for flax, hemp, etc. 4.

32. Sheffield, G. H., & Twinberrow, J. D.—13 Jan. 1904; U. K. 26,594/02. Railway wagons; construction of bodies, under-framing, and bogies. 5.

33. Schill, C. H., & Hills, H. G.—18 Aug. 1903; U. K. 18,867/02. Water gas producer. 3.

34. Revel, A. A.—10 March 1903; U. K. 28,289/02. Umbrella, etc., sticks with tubular metal ends. 1.

35. Dastur, A. M.—8 Aug. 1903; U. K. 13,488/02. Cotton gin of Macarthy type with four rollers. 1.

36. Gill, A. B.—U. K. 17,482/01. Electrically lighting railway trains.

37. Walker, A.—26 March 1903. Road vehicle shaft supports or joints. 1.

38. Edison, T. A.—26 Aug. 1903; U. K. 322/03. Electricity—Secondary batteries of the iron and nickel oxide type. 8.

39. Hiss, N.—21 Aug. 1903; U. K. 25,977/02. Friction gear for drop hammers and pile drivers. 4.

40. Stanton, C. W.—29 July 1903; U. K. 1397/03. Condensing coil and receptacle for use with stills, furnaces, etc. 1.

41. Lones, J. & J., & Holden, E.—21 Aug. 1903; U. K. 10,865/01. Zinc sulphide for use as pigment prepared from ores by combined dry and wet processes involving roasting to oxide, solution as acetate or alkaline salt, and precipitation as sulphide; bye-products utilised.

42. Herschmann, A.—21 Aug. 1903. Steam motor vehicles of heavy types; smoke stack below with forced draught, details of driving, compensating and brake gear, and frame. 2.

43. Tonkins, J. E., Ames, W., & Nicolle, W. E. H.—5 Sept. 1903. Railway fish joint with locking plate. 1.

44. Westinghouse, G.—9 Sept. 1903; U. K. 11,045/02. Steam turbine with rings in removable sections and with means for re-heating the steam. 4.

45. Fletcher, J.—12 May 1903; U. K. 19,610/02. Drawing off or dispensing appliance for aërated and other liquids from reservoir with valves and intermediate chamber. 1.

46. Poeffel, A.—5 Sept. 1903; U. K. 28,937/02. Lamp with wick and incandescent burner. 1.

47. Macdonald, J.—25 March 1903; U. K. 18,228/00. Cigarette making machines in which the tobacco is formed into a rod, covered with a continuous paper wrapper, and then cut into lengths. 5.

48. Richards, I. W.—Ships and boats are moored to a temporary mooring post or frame.

49. Corrington, M.—24 Nov. 1903; U. K. 24.790/02. Railway compressed air brakes, re-charging auxiliary reservoirs during application of brakes and release. 3.

50. Davidson, J. E.—12 May 1903; U. K. 1480/03. Horse shoes with wood or other fibrous non-slipping surfaces. 1.

51. Quinlivan, J. F.—25 June 1903. Paddy steaming appliance consisting of a vertical shell with steam pipes, doors, etc. 3.

52. Dumaresq, W. N.—U. K. 2491/02. Variable speed chain gearing with expanding wheel for motor cars, cycles, etc. 3.

53. Dumaresq, W. N.—7 Sept. 1903; U. K. 5694/02. Variable speed chain or belt bearing with expanding wheel for driving motor cars, cycles, etc. 11.

54. Norrie, R.—22 Sept. 1903. Metal shearing machine with movable blade moving between two cutting edges. 3.

55. Doeg, S. S.—Tram rail cleaning and lubricating appliances. 3.

56. Young, H. H.—12 May 1903 Worm speed reducing gear for electric and other motors. 1.

57. Westinghouse Brake Co.—27 April 1903. Helical spring and friction device for use in railway buffers and draw gear. 2.

58. Darby, T. C., T. A., & S. C.—24 Sept. 1903; U. K. 20.259/01. Digging machine for agricultural purposes or for scarifying roads. 4.

59. Tholasi Doss, K.—Water lift with counterbalanced buckets and bullock gear. 1.

60. Steel, A.—Cotton gin rollers made of compressed paper, straw, rags and wood pulp.

61. Barber, T. W.—22 Sept. 1903; U. K. 22,866/01. Steam motor cars—construction of boilers, condensers, frames, engine and other details. 8.

62. Perry, W. F. S.—Punkah ropes covered with leather or other material to prevent wear.

63. **Kellie, E. H.—25 Nov. 1903. Latch fastening with seal for railway wagon and other doors. 1.**

64. D'Rozario, E. R.—27 Oct. 1903. Steam boiler furnaces with means for supplying heated air beyond the bridge for smoke consumption. 1. Refers to 451/02.

65. Carruthers, J. A.—22 Sept. 1903; U. K. 21,470/02. Electric clock with indicator circuit closer and electromagnets for keeping the pendulum going. 1.

66. Carruthers, J. A.—22 Sept. 1903; U. K. 21,471/02. Electric clock similar to 65 above. 2.

67. Hunt, H. A.—8 Oct. 1903. Anemometer consisting of a hollow cube mounted always to present one face to the wind and provided with means for checking recoil and taking autographic record. 3.

68. Roberts, P. E.—14 April 1903; U. K. 12,484/02. Boots; revolving heel pad or protector of india-rubber, secured by metal plate and screw. 1.

69. Dawson, G. T.—Centerings for arches consisting of arched plates with hooks or clips. 1.

70. Wense & Co., G.—Saddletree of leather stiffened with metal. 1.

71. Gunmaker, Gulam Hyder.—6 Nov. 1903. Oil vapour incandescent lamps with horizontal vaporizer, nozzle cleaner, and other details. 2.

72. Hancock, E. J., & Lindsay, E. S.—Railway signals, for indicating condition of bridges.

73. Hodgkinson, J.—29 July 1903. Cotton ginning machine with means for measuring, opening and feeding the fibre, driving the combs and clearing the horsehair roller in Prior's gin. 5.

74. Armstrong, Whitworth & Co., Sir W. G.—23 Dec. 1904; U. K. 18,439/02. Railway wagon end tipping appliance for unloading. 1.

75. Subba Row, C. K.—Water lift with endless chain of buckets and see saw treadmill motor. 4.

76. Hodgkinson, J.—14 Dec. 1903. Mechanical stoker for furnace with alternative coking and sprinkling feed. 3.

77. Ford, L. P.—1 Dec. 1903; U. K. 26,259/01. Moulding artificial stone blocks from mixtures of sand and lime. 2.

78. Harrington, B. R.—Sewage—closed septic tank with effluent discharged through filter and waste pipes into the soil. 1.

79. Chatterjee, Jogendra Nath.—6 July 1903. Moulding and casting iron cooking pans in sand moulds. 1.

80. Lamont, W., & Michie, D. K.—6 May 1903; U. K. 7711/02. Tea drying apparatus with tubular air heater and mechanically operated tilting trays. 5.

81. Harrington, B. R.—Latrine with passage for attendant at back of seats. 1.

82. Basrur Bros., & Co.—Coloured powder (gulal) made from a product of the palipot palm treated with a colouring fluid.

83. Marshall, E.—U. K. 27,250/02. Bottle stoppers consisting of a short cork with a ring and clip holder. 1.

84. **Coryton, Mrs. C. A., Hume Spry, H., & Richardson, G.**—5 Nov. 190
Mechanical stokers for brick kilns in which measured quantities a
emptied into each charging hole and a record is taken. 9.

85. **Munson, C. W.**—2 May 1903. Air and gas compressor of the cresce
shaped chamber or rotary engine type with means for cooling the a
and returning the lubricant. 2.

86. Curry, L. M.—19 Nov. 1903; U. K. 3968/03. Carpenter's plane wit
adjustment for bit. 1.

87. **Ramsingh Dongarsingh.**—15 Sept. 1903. Warping machine, details
drum mounting, leasing and thread guides, and dropping arrang
ments. 9.

88. **Besant, F. W.**—Railway point and signal engaging selecting, locking an
detecting gear. 1.

89. **Pedroza, S. R.**—21 Nov. 1903. Portable telegraph and telephone app
ratus including supports and receptacles for instruments, batterie
seat, weather protection and jointed connecting rod. 1.

90. **Tristram, C. E.**—13 Nov. 1903. Entrenching tool with pick and spad
or hoe. 1.

91. Soc. An. la Lampe Hollub.—8 Oct. 1903; U. K. 22,827/02. Electric i
candescent lamp bulb with glass stem and studs for securing it i
bayonet slots of holder. 2.

92. Ribbert, J.—8 Oct. 1903; U. K. 28,646/02. Indigo dyeing process i
volving the use of paste resists and printing operations.

93. Hewitt, P. C.—8 Oct. 1903. Electric apparatus for producing int
mittent or vibratory currents applicable as a mercury vapour lam
or for wireless telegraphy. 1.

94. Hien, P.—27 July 1904; U. K 22,384/02. Friction spring device, co
sisting of a number of split springs and abutments applicable f
railway buffer or draw gear. 1.

95. Bowman, F. E.—U. K. 3783/02. Gas manufacture.

96. Wilson, J., & Kemp-Welch, J. S.—8 Oct. 1903; U. K. 7373/02. Stea
generator furnace with chequer work in hollow re-bridge for heatin
air for smoke consumption. 1.

97. Ford, L. P.—7 Sept. 1903; U. K. 26,258/02. Bricks made from san
and lime in steam heated mixing and pugging machinery. 2.

98. Sergent, W. D.—14 Jan. 1904; U. K. 3767/03. Brake shoes for railw
vehicles are made by casting soft metal round blocks made part
of soft "expanded" metal and partly of hard metal. 1. Refers t
to 444/98.

99. **Rogers, A. B. C.**—19 Jan. 1904. Non-conducting composition of grou
mica and Burgut sap or sap of the Banyan tree; rice; gum, etc
may be added.

100. Balwant, Rao Scindia.—24 July 1903. Rickshaw with seats overhangi
the wheels and with strengthening members. 1.

101. Raymond Concrete Pile Co.—13 June 1903. Concrete pile casings, co
sisting of nested conical sections. 1.

102. Hayes, G. H.—17 Aug. 1903. Portable pneumatic drill 4.

103. **Mctear, B. F., & Gibson, H. C. W.**—Tube manufacture by piercing and forging machinery.

104. **Hulbard, P.**—12 May 1903; U. K. 4571/03. Lubricator with multiple delivery closed automatically by ball valve in case of fracture. 1.

105. **Datta, Lalit Mohan.**—Boat with external buoyancy chamber filled with sola pith. 1.

106. **Jones, W.**—5 May 1903. Spinning; spur gearing applied to the rollers of ring spinning frames. 2.

107. **Main & Co., A. & J.**—29 July 1903; U. K. 664/03. Corrugated steel strips for fencing made from plates by punching, slitting and rolling machinery. 1.

108. **Hewitt, P. C.**—8 Dec. 1903. Electric undirectional and alternating currents are converted by vapour or gas appliance. 1.

109. **Crown Cork and Seal Co.**—13 Nov. 1903. Stopper for bottles, etc., consisting of a gasket and internally expanded cup. 1.

110. **Rippingille, F. S.**—8 Dec. 1903. Pulleys for punkahs with internal lubrication chamber. 1.

111. **Cowan, J.**—7 Nov. 1903. Steam boiler furnace adopted for burning waste jute, etc. 3.

112. **General Electrolytic Parent Co.**—7 Nov. 1903; U. K. 10,204/02. Electrolysis; construction of carbon electrodes. 1.

113. **Mawson, G. T.**—22 Dec. 1903. Dating stamp with cutting and perforating attachment. 3.

114. **Bhagwaty Prasad.**—20 Oct. 1903. Perpetual calendar attachment for pens and pencils. 2.

115. **Cooper Hewitt Electric Co.**—5 Nov. 1903; U. K. 3444/03. Electric gas or vapour lamp with starting arrangement. 2.

116. **Bremer, H.**—5 Nov. 1903; U. K. 12,241/02. Electric arc lamp, arc striking and carbon feeding arrangements. 1.

117. **Passburg, E.**—30 June 1903; U. K. 4126/01. Vacuum drying chamber with steam heating passages. 2.

118. **Scott, C. F.**—25 June 1903. Electromotors of the single phase alternating current type with means for controlling current in field and armature. 1.

119. **Jerrard, C. H.**—12 May 1903; U. K. 1323/02. Rail cleaners carried by tram cars. 1.

120. **Griffiths, W., & Bedell, B. H.**—19 May 1903; U. K. 21,974/01. Collectors for use on various systems of electric railways and tramways. 1.

121. **Griffiths, W., & Bedell, B. H.**—19 May 1903; U. K. 12,684/02. Electric railways and tramways on surface contact system with means for preventing leakage to the road studs. 1.

122. **Laing, E. H. B., & Clarke, G. W.**—U. K. 17,578/02. Bandolier and waist belt rifle carrier. 1.

123. **International Balanger Spinning Ring Co.**—12 Oct. 1903; U. K. 18,513/02. Spinning; spindle apparatus and non-automatic stop gear. 4.

124. **Rutnagur, S. M.**—8 Oct. 1903; U. K. 1640/01. Water waste preventers with tipping tank and valve. 4.

125. Taylor, J. M.—25 June 1903. Water lift with counterbalanced buckets worked from non-reversing bullock gear. 2.

126. Walke, C., & Padumjee, H. D.—13 Nov. 1903. Ball bearings with several rows of balls. 1.

127. Cantwell, E. L.—15 Dec. 1903. Portable cooking and water boiling apparatus with nested boilers, pans, etc., for military or other use. 2.

128. Mir Sufdar, Hussein, & Webbe, G. T.—1 Sept. 1903. Matting of straw or like rope for stabling purposes, etc. 1.

129. Shorrock, C.—28 July 1903. Spray producer for humidifying air. 1.

130. Zöger, C. C.—21 July 1903; U. K. 623/03. Hulling machine for rice, etc., with belt geared rollers, one covered with emery, etc., and the other with rubber, etc. 1.

131. Lena, J., Whitelegg, R. H., & Baker, F. N.—Railway vehicle couplings.

132. Hoffmann, O.—7 Nov. 1903; U. K. 25,441/01. Automatic sprinklers for fire extinction with valves made of jet.

133. Renoy, L. J.—11 Aug. 1903; U. K. 19,715/02. Saucepan with cover which can be tightly closed and kept cool. 1.

134. Rooke, T., & Thrush, J.—13 Nov. 1903. Destructor furnace with means for heating air and refuse before combustion. 3.

135. Gladstone, W. E.—27 Nov. 1903. Hair pins with straight and corrugated legs. 1.

136. Mawson, G. T.—Centering for arches, etc. 1.

137. Leiter, L. Z.—21 Aug. 1903. Coke oven of the beehive type with means for supplying heated air. 2.

138. Reid, J. H.—30 June 1903; U. K. 1670/03. Electricity; primary battery with circulating fused electrolyte of alkaline hydrates into which carbonaceous gas is forced. 2.

139. Main, J. A.—Bullets and other projectiles are rifled and used with smooth bore guns. 1.

140. Rajak, B. L.—19 Nov. 1903. Windmill with vertical or horizontal shaft and self feathering vanes. 1.

141. Ramsingh Dangarsingh.—15 Sept. 1903. Warping machines for making long leased skeins, details of drum, driving gear and thread guides. 3.

142. Dolter Electric Traction, Ld.—29 July 1903; U. K. 19,827/02. Electric railways and tramways on a road contact system with switches operated by magnets on the vehicles. 1.

143. Main & Co., A. & J.—U. K. 1720/02. Railway crossing gate with folding lattice and counterweighted girder. 1.

144. Devonshire, T. E.—12 Sept. 1903; U. K. 346/03. Electric conductor conduits made in tubular trough or other form of cement, etc., strengthened with expanded metal and end pieces. 2.

103. **Mctear, B. F., & Gibson, H. C. W.**—Tube manufacture by piercing and forging machinery.

104. **Hulbard, P.**—12 May 1903; U. K. 4571/03. Lubricator with multiple delivery closed automatically by ball valve in case of fracture. 1.

105. **Datta, Lalit Mohan.**—Boat with external buoyancy chamber filled with sola pith. 1.

106. **Jones, W.**—5 May 1903. Spinning; spur gearing applied to the rollers of ring spinning frames. 2.

107. **Main & Co., A. & J.**—29 July 1903; U. K. 664/03. Corrugated steel strips for fencing made from plates by punching, slitting and rolling machinery. 1.

108. **Hewitt, P. C.**—8 Dec. 1903. Electric undirectional and alternating currents are converted by vapour or gas appliance. 1.

109. **Crown Cork and Seal Co.**—13 Nov. 1903. Stopper for bottles, etc., consisting of a gasket and internally expanded cup. 1.

110. **Rippingille, F. S.**—8 Dec. 1903. Pulleys for punkahs with internal lubrication chamber. 1.

111. **Cowan, J.**—7 Nov. 1903. Steam boiler furnace adopted for burning waste jute, etc. 3.

112. **General Electrolytic Parent Co.**—7 Nov. 1903; U. K. 10,204/02. Electrolysis; construction of carbon electrodes. 1.

113. **Mawson, G. T.**—22 Dec. 1903. Dating stamp with cutting and perforating attachment. 3.

114. **Bhagwaty Prasad.**—20 Oct. 1903. Perpetual calendar attachment for pens and pencils. 2.

115. **Cooper Hewitt Electric Co.**—5 Nov. 1903; U. K. 3444/03. Electric gas or vapour lamp with starting arrangement. 2.

116. **Bremer, H.**—5 Nov. 1903; U. K. 12,241/02. Electric arc lamp, arc striking and carbon feeding arrangements. 1.

117. **Passburg, E.**—30 June 1903; U. K. 4126/01. Vacuum drying chamber with steam heating passages. 2.

118. **Scott, C. F.**—25 June 1903. Electromotors of the single phase alternating current type with means for controlling current in field and armature. 1.

119. **Jerrard, C. H.**—12 May 1903; U. K. 1323/02. Rail cleaners carried by tram cars. 1.

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121. **Griffiths, W., & Bedell, B. H.**—19 May 1903; U. K. 12,684/02. Electric railways and tramways on surface contact system with means for preventing leakage to the road studs. 1.

122. **Laing, E. H. B., & Clarke, G. W.**—U. K. 17,578/02. Bandolier and waist belt rifle carrier. 1.

123. **International Balanger Spinning Ring Co.**—12 Oct. 1903; U. K. 18 513/02. Spinning; spindle apparatus and non-automatic stop gear. 4.

166. Lindmark, T. G. E.—11 Aug. 1903; U. K. 21,174/02. Steam turbines of the multiple expansion, impact wheel type. 6.

167. Nurnberger Motor fahrzeugefabrik "Union" G. m. b. H.—28 Nov. 1903; U. K. 10,715/02. Friction gear for motor cars. 1.

168. Nurnberger Motor fahrzeugefabrik "Union" G. m. b. H.—28 Nov. 1903; U. K. 10,716/02. Friction and clutch variable speed gear for motor cars. 1.

169. Igel, H.—3 June 1903; U. K. 20,598/01. Rotary engines of the axial shaft and reciprocating piston type. 1.

170. Igel, H.—3 June 1903; U. K. 26,538/03. Similar to 169 above. 6.

171. Low & Co., J. F., & Orr, C. R.—6 June 1903; U. K. 27,529/02. Spinning spindles grouped, each group driven by a single endless band. 3.

172. Shillingford, S. J.—11 Aug. 1903. Strap for holding cyclist's trousers. 1.

173. Augier, C. R.—3 Dec. 1903. Brick kiln of continuous type with central flue to fixed chimney and corresponding arrangement of dampers. 3.

174. Blair, J. B.—4 Jan. 1904. Ships are swung or steered by action of steam or air jets on water in transverse passages in the hull. 1.

175. Dunne, R.—27 Nov. 1903. Mitre cutting device for picture fames, etc., adapted to cut the two meeting ends simultaneously. 4.

176. Brown Hoisting Machinery Co.—23 Oct. 1903. Piles made of concrete with corrugated metal core. 1.

177. Mawson, G. T.—2 Feb. 1904. Dating or other self-inking stamps with cutting and punching for perforating attachments. 4.

178. Gayer, E. C.—11 May 1904. Railway vehicle automatic couplings and buffer. 3.

179. Tubbs, A. H.—Sliding wedge catch for railway carriage and other windows. 1.

180. Peters, G. A.—4 Jan 1904. Targets in sections each electrically connected to an indicator. 1.

181. Field, E., & New Century Engine Co.—25 Jan 1904; U. K 7498/03. Locomotives actuated by compressed air and steam passed through superheater in the smoke box. 6.

182. Morisan, G. S.—8 Dec. 1903; U. K. 4948/03. High speed steam and other engines in which the crank shaft is actuated by sectors bearing on connected pistons in the cylinder. 3.

183. Mookerjee, Annanda Prasad.—Soorkhi pan mill with elevator for discharging and screening attachment. 4.

184. Wilson, W. B.—8 Dec. 1903; U K. 21,330/02. Spinning, shields and hoops for spools and bobbins. 3.

185. Rhodes, W. & C. J.—24 Nov. 1903; U. K. 17,851/02. Stamping and seaming machinery for making oil, etc., cans, boxes and other hollow-ware from sheet metal. 5.

186. Pundt, A. E.—25 June 1903. Collapsible handle for kerosene tins, etc 1.

187. D'Vauz, J. A., & Mooroogason, P.—Black process of ferrotyping, using galic acid and iron salts. 2.

188. Eaton, E.—U. K. 2372/03. Bricks made from sand and lime in steam heated mixing and pugging machinery. 6.

189. Shorrock, C. & W.—10 Dec. 1903; U. K. 5461/02. Loom dobbies. 2.

190. Falcone, A.—U. K. 3986/03. Telegraph magneto machine combined with sending key and polarized receiver. 1.

191. Thomson, D.—10 Dec. 1903; U. K. 6396/03. Delivering measured quantities from bulk of semiliquid, granular or viscous material, applicable *inter alia* for bread-making. 5.

192. Dumaresq, W. N.—10 Dec. 1903; U. K. 2491/02. Variable speed chain gearing for motor cars, etc. 1.

193. Dewdney, G. F.—10 Dec. 1903; U. K. 10,239/02. Seamed or grooved joints for lids and heads of metal drums, kegs, etc. 1.

194. Hughes, E. W. M.—9 March 1904; U. K. 15,524/02. Wheels for army vehicles with renewable spokes. 1.

195. Mather & Platt, Ld.—19 June 1903; U. K. 26,155/01. Bleaching, dyeing, etc., apparatus for fibres or fabrics consisting of a tank with perforated partitions and circulating pump. 1.

196. Mather & Platt, Ld.—19 June 1903; U. K. 13,375/01. Similar to 195 above. 1.

197. Reid, R. S.—29 July 1903; U. K. 21,184/02. Hook and bolt fastenings for sliding windows. 1.

198. Bautsch, A.—31 July 1903. Fibre decorticating machine with feed roller and roller carrying alternate beaters and brushes. 1

199. Hayley, C. P., & Northway, C.—30 April 1904. Sifting, sizing, sorting and polishing apparatus with corrugated surface for tea, plumbago, etc. 1.

200. Elspass, J. H.—21 Dec. 1903; U. K. 7897/03. Grinding and amalgamating apparatus of the pan type. 3.

201. Harper, W. L., & Cassidy, M. J.—19 Jan. 1904. Railway signals; revolving tail light on train showing whether it is in motion or standing. 1.

202. Gray, W. B.—21 Dec. 1903; U. K. 14,909/02. Breaking and switching machine for flax, jute, etc., with alternate toothed rollers and reciprocating plates. 3.

203. Thom, T. M.—22 Dec. 1903; U. K. 12,861/02. Artificial marble or dolomite made from chips mixed with lime moulded, and then carbonated under heat and pressure.

204. Hislop, R. C., & Webber, W.—23 Dec. 1903. Soldering tins, superfluous solder is removed in a centrifugal machine. 1.

205. Timmis, I. A.—23 Dec. 1903. Spark arresting and smoke consuming in locomotive and other furnaces by injection of cold or heated air. 3.

206. Wolff, W. H.—21 Aug. 1903. Railway chair metallic keys of U-form with internal shoulders. 1.

207. Mayne, W.—3 Sept. 1903. Steam engine distributing valves of disc and conical oscillating types. 2.

166. Lindmark, T. G. E.—11 Aug. 1903; U. K. 21,174/02. Steam turbines of the multiple expansion, impact wheel type. 6.

167. Nurnberger Motor fahrzeugefabrik "Union" G. m. b. H.—28 Nov. 1903; U. K. 10,715/02. Friction gear for motor cars. 1.

168. Nurnberger Motor fahrzeugefabrik "Union" G. m. b. H.—28 Nov. 1903; U. K. 10,716/02. Friction and clutch variable speed gear for motor cars. 1.

169. Igel, H.—3 June 1903; U. K. 20,598/01. Rotary engines of the axial shaft and reciprocating piston type. 1.

170. Igel, H.—3 June 1903; U. K. 26,538/03. Similar to 169 above. 6.

171. Low & Co., J. F., & Orr, C. R.—6 June 1903; U. K. 27,529/02. Spinning spindles grouped, each group driven by a single endless band. 3.

172. Shillingford, S. J.—11 Aug. 1903. Strap for holding cyclist's trousers. 1.

173. Augier, C. R.—3 Dec. 1903. Brick kiln of continuous type with central flue to fixed chimney and corresponding arrangement of dampers. 3.

174. Blair, J. B.—4 Jan. 1904. Ships are swung or steered by action of steam or air jets on water in transverse passages in the hull. 1.

175. Dunne, R.—27 Nov. 1903. Mitre cutting device for picture fames, etc., adapted to cut the two meeting ends simultaneously. 4.

176. Brown Hoisting Machinery Co.—23 Oct. 1903. Piles made of concrete with corrugated metal core. 1.

177. Mawson, G. T.—2 Feb. 1904. Dating or other self-inking stamps with cutting and punching for perforating attachments. 4.

178. Gayer, E. C.—11 May 1904. Railway vehicle automatic couplings and buffer. 3.

179. Tubbs, A. H.—Sliding wedge catch for railway carriage and other windows. 1.

180. Peters, G. A.—4 Jan 1904. Targets in sections each electrically connected to an indicator. 1.

181. Field, E., & New Century Engine Co—25 Jan 1904; U. K 7498/03. Locomotives actuated by compressed air and steam passed through superheater in the smoke box. 6.

182. Morisau, G. S.—8 Dec. 1903; U. K. 4948/03. High speed steam and other engines in which the crank shaft is actuated by sectors bearing on connected pistons in the cylinder. 3.

183. Mookerjee, Annanda Prasad.—Soorkhi pan mill with elevator for discharging and screening attachment. 4.

184. Wilson, W. B.—8 Dec. 1903; U K. 21,330/02. Spinning, shields and hoops for spools and bobbins. 3.

185. Rhodes, W. & C. J.—24 Nov. 1903; U. K. 17,851/02. Stamping and seaming machinery for making oil, etc., cans, boxes and other hollow-ware from sheet metal. 5.

186. Pundt, A. E.—25 June 1903. Collapsible handle for kerosene tins, etc 1.

231. **Mather & Platt, Ld.—24 July 1903. Looms, automatic weft replenishing motions, and weft and warp stop devices, and indicators. 10.**

232. Smith, J. E.—21 Dec. 1903. Cigar bunching or filler forming machine. 5.

233. Young, S. G.—3 Feb. 1904. Locomotive blast pipe with four steam openings in cap. 1.

234. Remfry, H. G.—Conical wedge, and other forms of deflectors, with or without adjustments and khuskhus for distributing draught of rotary fans. 1.

235. Price, A. B.—6 Feb. 1904. Collapsable centering or mould of sheet metal for making tubes, drains, pillars, etc. 1.

236. Price, A. B.—Centerings and moulds of sheet metal and supports for making concrete blocks, walls, etc. 1.

237. Sowcar, S. G. B.—Fibre decorticating appliance consisting of adjustable blade and table and special form of tongs. 1.

238. Roy, P. N.—13 Jan. 1904. Rice hulling machine of the pestle and mortar type with compound levers and with winnowing attachment. 2.

239. Woltereck, H. C.—29 July 1903; U. K. 19,804/02. Hydro-cyanic acid is made by passing ammonia, a carbon compound and hydrogen, such as water gas, over heated catalytic substances. Cyanides are obtained by absorbing the gas in suitable reagents.

240. Walker, A.—11 Aug. 1903. Road vehicles; shaft attachment for supporting shafts and stumbling animals. 2. Refers to 37/02.

241. Marshall, W. N.—13 Jan. 1904. Pestle and mortar type of mills for hulling rice, grinding soorkhi, etc.; pestle lever with roller ends actuated by cam shaft. 1.

242. Ashfield, A.—16 Jan. 1904. Friction grip fastener used instead of buckle on saddle girths, etc. 1.

243. Osmond, S. J.—16 Jan. 1904. Hollow dollying device for washing wool, fabrics, etc. 1.

244. Perillat, C. D.—9 Sept. 1903; U. K. 11,624/03. Vaporizer and burner for kerosene and other hydrocarbons. 2.

245. Dennett, R. J.—6 Feb. 1904. Railway signal wire compensators. 2.

246. Ruping, M.—18 Nov. 1903; U. K. 6844/02. Wool and other porous material is impregnated by first subjecting it to air under pressure and then to liquid under greater pressure.

247. Clayton, C. W.—7 Dec. 1903. Carbonic acid generators used in aerating liquids are made of wood in the form of barrels. 1.

248. Johnstone, A. E.—U. K. 20,152/02. Liquid fuel fittings for oil fired furnaces. 1.

249. Jackson, P. J.—13 Jan. 1904; U. K. 22,530/02. Advertising, displaying, train indicating, etc., device. 3.

250. Bremer, H.—13 Jan. 1903; U. K. 13.786/02. Electric arc lamps, feeding arrangements for carbons both of which point downwards and towards each other. 1.

251. Linotype Co.—27 Jan. 1904; U. K. 13,937/01. Linotype; details of matrix, magazine, assembling, elevating, locking, justifying, moulding, casting, ejecting trimming and distributing. 14.

252. Holmes, S. O.—Lignite or brown coal briquetted by crushing, heating and compressing, with or without addition of resin.

253. Edwards, E.—10 Aug. 1903; U. K. 8774/02. Gold ore washing boxes or sluices with blanket bottoms and floating blankets to catch float gold. 1.

254. Calder, W. H.—11 Nov. 1904; U. K. 3618/02. Shot is made by cutting lead into cubes which are then rolled. 1.

255. International Sheahan Rotary Engine Co.—23 Oct. 1903. Rotary engine of the inclined disc or gyratory piston type. 2.

256. Shone, I., & Ault, E.—21 Oct. 1903; U. K. 4795/03. Pneumatic sewage lifting apparatus with alternately working chambers to which liquid and compressed air are admitted. 4.

257. McKay, H. V.—1 Aug. 1903. Harvesting machines of the type that strip the heads from the standing crop, winnow and bag the grain. 3.

258. Thomas, W.—29 July 1903. Photographic change box and developing apparatus. 2.

259. Kron, R.—23 Sept. 1903; U. K. 21,915/02. Spinning asbestos cellulose and other short fibre.

260. Palmer, E. R.—1 Aug. 1903. Latrine; arrangements of cell and flushing tanks and pipes. 2.

261. Elliot's Patent Improved Domestic Pin Co.—U. K. 8081/02. Pins with corrugations, bends, waves, or twists between the point and head. 1.

262. Maxwell, H. M.—6 Aug. 1904. Bridles for riding and driving. 1.

263. Crochet, E.—22 Sept. 1903; U. K. 14,149/02. Textile vegetable fibres are treated for removal of non-fibrous material by boiling in solution of lime, soda and potash, washing and then treating with soft soap.

264. Collyer, E. A.—21 Aug. 1903. Scutching and decorticating machine with oblique beaters on drum, roller feed and fixed support for material. 1.

265. Hayling, H. S.–1 Sept. 1903. Railway tip wagons with means for raising and lowering the body diagonally. 1.

266. Goode, Durrant & Co.—26 Jan. 1904. Water bag filter and cooler combined with filter in partition and air tubes. 1.

267. Pfaff, A.—26 Jan. 1904, U. K. 1286/03. Eggs are treated for preservation with a mixture of sulphurous and carbonic acid gases and chlorine followed by dilute sulphuric acid.

268. Campbell, R. G.—20 Jan. 1904 Loom picker stick lug straps. 1.

269. Park, T. M.—20 Jan. 1904. Portable inclined elevator with motor for loading wagons with ore in mines, etc. 2.

270. Peto, W., & Cadet, J. W. T.—12 Aug. 1903; U. K. 2195/03. Electrolyte for secondary batteries consisting of plastic mixture of lead sulphate and sulphuric acid.

271. Owens, M. J.—27 Nov. 1903; U. K. 12,799/03. Glass manufacture; rotary containers for use with suction gathering moulds. 1.

272. Streeting, G., Tarver, H., & Mackwood, F. E.—3 Dec. 1904. Green tea manufacture, revolving heated receptacle with scraper and fixed end door and feeding hopper for steaming, drying, roasting, firing, and finishing. 6.

273. Leistner, C.—25 Nov. 1903; U. K. 16,652/01. Glass bottle making machines. 8.

274. Lowry, G. A.—7 Sept. 1903. "Sparklet" arrangement for aerating liquids in bottles, etc. 1.

275. Brandon, J.—23 Oct. 1903. Cotton opening and feeding apparatus foi gins. 4.

276. Mirza Abkar Ali Khan.—Water lift with counterbalanced buckets anc capstan. 1.

277. Walke, C.—Zinc holders for boiler compositions.

278. Hickmott, H. C. W.—Brick making machine; clay forced through di from the pugmill by special revolving blades. 1.

279. Beale, C.—26 Jan. 1904; U. K. 7473/02. Food and other perishabl matters are treated under aseptic conditions prior to and during preservative operations in cold chambers, etc. 1.

280. Driver, A. H. M., & Norman, G.—U. K. 12,804/02. Examining anc straightening gun barrels and other tubes by sighting and bendin apparatus. 3.

281. Driver, A. H. M., & Norman, G.—U. K. 12,805/02. See 2/04. 6.

282. McConechy, J.—19 Aug. 1903. Acetylene lamp and water-to-carbid generator. 1.

283. Jones, R. G.—1 Feb. 1904. Race starting machine. 1.

284. Norton, H. B., & Tinson, J.—10 Sept. 1903. Updraught ventilatio cowl. 1.

285. Wernigg, A. G.—12 March 1904. Tyre heating appliance consistin of perforated coil supplied with oil. 2.

286. Brabson, T., & Cook, G. C.—16 Feb. 1904; U. K. 14,351/03. Incandescent cluster gas lamps. 1.

287. Hirst, F. W., Page, W. S., Rostron, J., Irving, J., & Gregson, J.—1 Feb. 1904; U. K. 484/03. Loom automatic shuttle changin mechanism, checking shuttle and pickers, take up motions. 3.

288. Wieda, E. F. W.—16 Feb. 1904; U. K. 7131/03. Mixing and kneadin machines for dough, candy, etc. 2.

289. Saunderson, H. P.—17 Feb. 1904; U. K. 20,618/01. Pumps for artesia wells with hollow rods acting as rising main. 1.

290. Greengrass, C. J.—11 March 1904. Railway track levelling applianc with mirrors for sighting rails. 1.

291. McTear, B. F., & Gibson, H. C. W.—20 Aug. 1903; U. K. 1716/0 Metal billet piercing machine for seamless tube manufacture. 2.

292. Deakin, W. H.—13 Jan. 1904. Safety padlock and key for railwa points. 3.

293. Parbury, E.—Electric lamp attachment for guns, etc., to give a sightin beam. 1.

294. Price, A. B.—27 Oct. 1903. Arch centerings with adjustable supports. 1.

295. Thomas, J.—13 Feb. 1904; U. K. 28,127/02. Railway automatic coupling and buffers. 5.

296. Price, A. B.—27 Oct. 1903. Valve for water closet flushing purposes, giving a dribble and rush of water on use. 1.

297. Sprockels, C. A., & Kern, C. A.—26 Feb. 1904; U. K. 17,912/02. Sugar crystals are purified by washing with special defecating solutions.

298. Rothwell, W. H.—30 March 1904; U. K. 21,577/02. Releasing gear for ships boats. 4.

299. Stafford, J. M.—26 Feb. 1904. Bottle stoppering device for preventing refilling. 1.

300. Jottrand, F.—7 Sept. 1903; U. K. 26,460/02. Soldering or brazing metals by burning the parts together. 1.

301. Wiggin, E. R., & Walthew, H.—Tea; revolving drum with or without internal battens for finishing green tea. 1.

302. Wiggin, E. R.—Tea; shaking tray with or without battens for finishing green tea. 1.

303. Browne, E. V.—1 March 1904. Fastening consisting of L-piece and collar for hoop iron bale ties. 1.

304. Mason, M. C., & Marak, S.—Cotton ginning machine made mainly of wood with treadle driving gear. 2.

305. Schrottky, E. C.—Indigo manufacture; plant steeped in solutions of alkaline saccharates or glucosides at 110° to 120°F.

306. Sutton, G. W.—14 Sept. 1904. Tea; revolving drum with steam jacket, steam pipes, and exhauster for steaming, panning, drying and polishing green or black tea. 1.

307. Huck, A., & Fischer, L.—23 Oct. 1903. Metallized varnish sheets or plates for photographic and other printing processes.

308. Le Mesurier, C.—14 Sept. 1903. Tea cultivating machine consisting of a movable frame carrying adjustable revolving tools. 1.

309. D'Esterre, H. E., & Dickson, R. C.—10 Oct. 1903. Tea breaking machine with adjustable rollers. 1.

310. McTear, B. F., & Gibson, H. C. W.—21 Oct. 1903; U. K. 6441/03. Tubes and other hollow bodies are rolled from hollow billets between a large driven roll and a small free roll inside the tube. 3.

311. Simmons, H., Rushton, E., & Hill, R.—U. K. 2892/03. Filing cabinet with drawers made in two parts hinged together. 1.

312. Oettli, J.—26 Feb. 1904; U. K. 12,713/03. Electrolytic manufacture of white lead with lead plates in solution of common salt and injection of carbonic acid. 1.

313. Oettli, J.—26 Feb. 1904; U. K. 12,719/03. Electrolytic manufacture of zinc white with zinc plates in sodium sulphate or other alkaline salt solution. 1.

314. Reuter, T.—11 May 1904. Centrifugal pump with impellers in series. 5.

315. Hartridge, W. B.—4 March 1904. Fuel briquettes made of coal, etc., embedded fibrous material such as straw coated with agglutinant such as tar, pitch, starch, etc.

316. Whitfield, C.—4 March 1904; U. K. 14,077/02. Gas producers arranged for passage of distillation products through the combustion zone. 1.

317. Ross, M. L.—U. K. 778/02. Gas and vapour burners for stoves, etc. 1.

318. Tholasi Doss, K.—Water lift with counterbalanced buckets and reversing whim. 1.

319. Tholasi Doss, K.—Water lift with buckets connected to counterbalance weights running on a tilting track. 1.

320. Murphy, T. M.—4 March 1904. Watering carts with compressed air attachments for supplying water under pressure. 2.

321. Poetter, H.—24 Oct. 1903. Explosive consisting of ammonium nitrate, dinitrobenzol, turmeric and organic copper salts.

322. Sutton, G. W.—5 March 1904. Tea; centrifugal separators for drying tea which is first put in special bags by hopper arrangements. 2.

323. Coen, C. M.—9 Feb. 1904; U. K. 12,766/03. Ships with screw propeller in bottomless recess in hull. 1.

324. Dobson, F. C. G.—Bag for postmen or messengers with compartments.

325. Churchill Shann, M.—Punkah pulling devices on the continuous rope system, arrangement of tension devices, motor and gearing. 3.

326. Bharucha, Dhunjishaw Ardeshir.—2 Jan. 1904. Punkah suspension hook with knife edge bearing. 1.

327. Foran, W.—11 Dec. 1903. Lock of the letter or permutation type. 1.

328. Syed Askari Hosain.—Perfumery tables consisting of paraffin with perfume incorporated.

329. Cantwell & Co.—Floors are laid on an antidamp layer which may be drained and ventilated. 1.

330. Brown, P. S.—16 Sept. 1903; U. K. 13,694/02. Tea box of wood with lead lined steel sheets and corner pieces. 1.

331. Fairweather, W.—10 Oct. 1903; U. K. 14,512/03. Sewing machine; rotary take up arm for slackening thread and tightening stitches. 1.

332. Wilson, J. F., & Whitmore, E. H.—19 March 1904. Metal spring hook and clip for labels, etc. 1.

333. Stuart, H. R.—8 March 1904. Electric voltage regulator with switch and transformer coils. 1.

334. Washington Licht Ges.—8 March 1904; U. K. 15,516/03. Oil vapour incandescent lamp with detachable vaporizer and chamber. 3.

335. Harris, G. W.—30 March 1904; U. K. 6107/03. Nut locking plate with flexible tongues for fish joints, etc. 1.

336. Gow, W.—14 March 1904. Tea, etc., panning, roasting or drying apparatus consisting of an open trough in which a spiral conveyor of special form works. 1.

337. Hooke, A. W.—24 June 1904. Gold, etc., is extracted from battery slimes, kaolin, etc., after drying and then burning.

338. Coath, D. D.—Corrugated roofs, sheets held by U-bolts, construction of sky-lights and ventilators. 2.

339. Foreign Mckenna Process Co.—14 Jan. 1904. Furnace charging machine specially adopted for placing units in reheating furnaces. 4.

340. Biggs, A. A.—Water crane for railways, etc., with valve operated by movement of arm. 1.

341. Patterson, J. H.—9 Dec. 1903; U. K. 26,770/02. Rifle carriers for horsemen with saddle clip and stud attachment to belt. 1.

342. Goldschmidt, H.—16 April 1904; U. K. 24,439/02. Rail joint moulds for the thermit process of cast welded joints. 1.

343. Muller, G.—U. K. 14,907/03. Butter substitute made from cocoanut butter by treatment with water and sodium bicarbonate.

344. Rengachari, K. S.—7 Oct. 1904. Hand or fly-shuttle looms with arrangements for weaving border patterns. 2.

345. Castle, P.—U. K. 11,981/01. Gas and vapour burners for stoves. 1.

346. Oliphant, W., & Elworthy, H. S.—25 Jan. 1904; U. K. 22,663/02. White lead made by passing carbonic acid under pressure into a revolving or agitating vessel containing lead and its oxide, water, acetic acid and an acetate. 1.

347. Huddleston, H. B., & Glascott, G. A.—Railway point and signal interlocking gear, preventing lowering of distant before home signal; construction of two key locking box. 5.

348. Tinley, G. F. N.—Box for carriage of military ammunition and stores.

349. Pereira, J. M.—Advertising by placards, transparencies and models.

350. Winter, C. B.—Folding box for waste paper. 1.

351. Cook, J. W.—3 Dec. 1903; U. K. 9655/03. Thread knotter for winders, weavers, reelers, etc. 1.

352. Schaefer, E.—23 March 1904; U. K. 16,174/03. Fire extincteur with wheeled tank, chemical bottle and screw breaker. 1.

353. Davis, H. T., & Perrett, E.—23 March 1904; U. K. 10,874/02. Water, especially condenser water, purified from oil by chemical additions and circulation through an electrolytic tank. 2.

354. Regenerated Cold Air Co.—10 Feb. 1904. Air treating apparatus with baffle sprays, etc., for ventilation, etc. 1.

355. Beard, J. F., & Hayne, R.—10 Oct 1903; U. K. 18,500/01. Breaking and scutching apparatus for vegetable fibres with transverse crushing rollers and chain feed, turning, and scraping appliances. 6.

356. Brownley, A. H.—23 May 1904. Tap and gauge for use with oil cans and like vessels. 1.

357. Budd, C. C.—9 May 1904. Self-closing latch and spring lock combination for carriage doors. 1.

358. Hills, H. G., & Primrose, W. G.—30 March 1904; U. K. 23,500/02. Pneumatic percussive hand tools. 2.

359. Hinks, H. D.—23 March 1904; U. K. 170/03. Lamps for burning light oils; construction of reservoir, and burner with tube and extinguisher. 2.

0. Moncrieff, R. W.—10 May 1904; U. K. 13,861/01. Spinning spindle apparatus with cop built nose downwards. 1.

1. Moncrieff, R. W.—10 May 1904; U. K. 13,861/01. Spinning spindle apparatus. 1.

2. Gibson, C.—1 Feb. 1904. Punkah pulling arrangements with worm rack and clutch gear between electromotor and ropes. 3.

3. Hamilton, D. M., & Black, D.—26 Nov. 1903. Elevator for discharging and loading coal or cargo in bulk from ships. 2.

4. Thompson, W., & Hughes, T. S.—23 Dec. 1903; U. K. 11,195/03. Hand truck or trolley for railway platform and similar use. 2.

5. Woltereck, H. C.—24 Oct. 1903. Ammonia is synthetically produced by passing air and steam, with, without, or alternately with carbon monoxide, over heated iron.

6. Cleghorn, J. P.—16 April 1904. Food and other substances are preserved by subjecting them to heat and light of electric lamps for varying periods, in conjunction or not with other processes.

7. Macalpine, T.—28 Jan. 1904; U. K. 18,728/02. Petroleum and its distillates are purified by treatment with saline materials and oxidation by air or oxidizing materials. 1.

8. Thomson, H. T., & White, J.—14 Nov. 1903. Chain and other conveyor arrangements for loading and unloading coal from and into railway wagons, ships, etc. 4.

9. Sutton, G. W.—Centrifugal separators with spring suspension and bottom discharge. 1.

0. Churchill-Shann, M.—29 March 1904. Steam pumps arranged for expansive working. 5.

1. Dhondy, Sorabji Cursetji.—25 April 1904. Flooring blocks of concrete for use in girder floor construction. 1.

2. Ram Singh Dongar Singh.—19 Jan. 1904. Warping machines with reversing motion operating after several revolutions of the drum so as to give a long warp. 3.

3. Deptre, E.—U. K. 11,790/02. Ramie, etc., retted in sea water.

4 Nurdin.—4 Dec. 1903. Clockwork arrangement for extinguishing street oil lamps. 1.

5. Bomonji, Dinshaw.—Hub and bearing for road vehicles. 1.

6. Siegwart, H.—11 May 1904; U. K. 984/03. Cutting artificial stone girders, beams, etc., while plastic. 2.

7. Siegwart, H.—11 May 1904; U. K. 983/03. Casting hollow girders and structures from plastic material such as cement, etc. 1.

8. Consolidated Railway Electric Lighting and Equipment Co.—26 April 1904. Regulating electric current used for lighting railway trains. 5.

9. Murray, K. S., & Read, H. V. R.—9 Nov. 1903; U. K. 12,115/02. Aerating apparatus for liquids of intermittent spraying type. 2.

0. Girling, L. W.—26 April 1904. Lock with double set of tumblers and security device. 1.

338. Coath, D. D.—Corrugated roofs, sheets held by U-bolts, construction of sky-lights and ventilators. 2.

339. Foreign Mckenna Process Co.—14 Jan. 1904. Furnace charging machine specially adopted for placing units in reheating furnaces. 4.

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359. Hinks, H. D.—23 March 1904; U. K. 170/03. Lamps for burning light oils; construction of reservoir, and burner with tube and extinguisher. 2.

405. Richardson, G. E.—Railway couplings.

406. Dubern, G.—17 June 1904. Icemaking cells or cans with conducting plate inserted.

407. Chambers, J., & Cook, S.—13 Nov. 1903; U. K. 10,371/03. Clip or holder for stentering, swissing, etc., machines for stretching and finishing fabrics. 4.

408. Cosserat, W. A. P., O'Donnell, J. P., & Irving, E. C.—13 May 1904; U. K. 2890/03. Railway electric and pneumatic signalling. 4. Refers to 145/00 and 210/01.

409. Dann, A. C. F.—13 Nov. 1903; U. K. 18,128/03. Variable speed clutch crank and bevel gear for motor cars. 1.

410. Cammiade, G. H.—Hides and skins are packed for shipment as crude parchment.

411. Subba Rao, Chevur Krishnachar.—24 May 1904. Water lift with wheel worked from see-saw. 1. Refers to 75/03.

412. Kirloskar, V. K. & L. K.—9 July 1904. Water lift with animals walking on inclined plane, counterbalance working on guides and special form of iron tilting bucket. 2.

413. Joshi, Mahadeo Ramchandra.—Arrangement of lifting buckets, weighing appliances and shoots for unloading coal, etc., from ships. 1.

414. Windle, C. H.—Trimming plates for use in loading ships' cargoes. 4.

415. Blackmore, F. E.—2 May 1904; U. K. 9621/02. Can lid with non-return valve to permit exhaustion of air for preserving food. 1.

416. Walker, J.—18 May 1904; U. K. 6721/03. Dress stand figure or dummy for dressmakers. 2.

417. Weiskopf, D. I.—3 May 1904. Glass rings are made by coiling a rod on a mandrel, breaking, flattening and finishing the ends. 1.

418. Holbourns, J. G., & Longhurst, H. A.—19 May 1904; U. K. 9113/02. Linotype machines of the typograph form; distributing mechanism. 5.

419. Taylor, J. M.—11 July 1904. Water lift with two buckets worked from animal gear and means for moving buckets from over the well for discharge at top. 3.

420. Parker, J.—9 Feb. 1904; U. K. 13,550/03. Drain pipe and similar joints of the spigot and socket type closed by pouring in cement, etc. 1.

421. Jawahar Singh.—31 Aug. 1904. Tumbler lock built up of readily disconnectible parts. 3.

422. Bamber, M. K.—14 April 1904. Tea manufacture; fermentation and oxidation promoted and controlled by addition of specified enzymes, antiseptics and fermentable material.

423. Green, M. R.—14 Jan. 1904. Bolt or pin safety fastening for sash windows. 1.

424. Thompson, F. C.—31 March 1904. Spring fastening for boots, shoes, leggings, gaiters and spats. 2.

425. Thompson, R. W.—2 Jan. 1904. Sluice of self-acting type, consisting of weighted shutter pivoted below the centre. 1.

426. Ross, P.—Railway point and signal interlocking gear working in connection with telegraph or tablet line wires. 2.

427. Robinson, J. G.—U. K. 17,053/03. Locomotives with water picking up scoop raised by steam or other fluid pressure. 4.

428. Lancaster, E. W.—17 June 1904; U. K. 24,582/02. Baths arranged to fold up into cabinet or cupboard. 2.

429. Atkins, G. J.—11 May 1904; U. K. 21,021/02. Electrolysis; construction of built up carbon electrodes and connection. 1.

430. Hodgkinson, F.—11 May 1904. Steam turbines; construction of fluid guiding passages. 2.

431. Keith, J.—2 Dec. 1903; U. K. 16,375/02. Air moistening apparatus consisting of fan, pump and water distributor in casing. 1.

432. Leach, W.—29 March 1904; U. K. 18,620/03. Railway chair spike with central forked hole to receive split pin which curls into the sleeper. 1.

433. Jordan, W. H.—8 Dec. 1903; U. K. 22,565/02. Coin freed weighing and strength testing apparatus. 1.

434. Passburg, E.—9 Feb. 1904. Tea manufacture; leaves dried on heated trays in vacuum chamber. 1.

435. Conrad, F.—9 Feb. 1904. Electricity; meters with quadrative adjusting coils and resistances. 1.

436. Gale, F., Gordan, J. K., & Parks, T. A.—7 Dec. 1903. Pop guns adapted to discharge darts or shot. 1.

437. Gange, A. J.—3 Sept. 1904. Permutation lock for railway waggon doors, etc. 1.

438. Thomas, F.—Steam generators, scraping attachments for removing soot from heating surfaces. 2.

439. Watts, A. M. S.—15 March 1904; U. K. 13,179/03. Tap with piercing and holding attachment for use with cans. 1.

440. Holland, G. E., & Johnston, H.—4 Dec. 1903; U. K. 27,616/02. Ship holds with tilting bottoms, conveyor arrangements for discharging and measuring attachments. 1.

441. Jurschina, F.—18 May 1904; U. K. 25,222/02. Artificial stone blocks with facing made by casting mixtures of clay, sodium, silicate, sand, etc.

442. Best, W. N.—11 May 1905. Oil-fired furnaces for locomotives, etc., with special forms of fire-brick linings, arches and air supply. 1.

443. Best, W. N.—11 May 1905. Oil burner of the atomizer type specially for oil-fired locomotives. 1.

444. Ayden, A. H.—11 May 1904. Tea rolling machine with swing reciprocating rolling surfaces consisting of corrugated segments of cylinders. 2.

445. Perky, H. D.—3 Dec. 1903. Biscuits or crackers and continuous oven for baking them. 7.

446. Gayer, E. C.—23 Dec. 1904. Railway vehicle automatic couplings with central or other buffers. 3.

447. Bristow, A. H.—24 Feb. 1904. Furnaces with firebars and hot air supply for smoke consumption. 1.

448. Robertson, G. P.—Hoeing machine for use in tea gardens. 1.

449. Rosenschein, J. L., & Manning, H.—4 Dec. 1903; U. K. 12,177/03. Sewing machines of the lock stitch type. 3.

450. Stephens, W. C.—4 Dec. 1903; U. K. 7979/03. Pneumatic rock drill with valve operated by piston. 1.

451. Dastur, H. F.—15 Jan. 1904. Junction ring for fixing hydrants on water mains. 1.

452. Westinghouse, G., & Aspinwall, L. M.—24 May 1904. Electricity; master controller and motor controller for electric traction. 2.

453. Westinghouse, G.—24 May 1904; U. K. 8256/03. Electricity; electro-pneumatic control for motors for electric traction. 4.

454. Jackson, A. B.—9 Dec. 1903; U. K. 26,230/02. Draught and dust excluder, consisting of pivoted strip, for doors. 1.

455. Muhammad Alauddin.—14 Dec. 1903. Water lift consisting of winch, counterbalanced buckets and V guide pulleys. 1.

456. Bowman Continuous Automatic Brake Co.—24 May 1904; U. K. 8502/03. Railway vehicle brakes applied from either side. 2.

457. Matthews, J. J.—8 Dec. 1903. Acetylene generator of the water-to-carbide type. 1.

458. Hall, W. M.—4 March 1904. Tea manufacture: withered leaf mixed with steamed leaf or leaf dipped in boiling water and then rolled.

459. Hall, W. M.—4 March 1904. Tea manufacture; green tea dust and fannings are rolled with leaf being converted into black tea.

460. Aydon, A. H.—11 May 1904. Tea rolling machine with corrugated, etc., cylinders or segments, one working inside the other. 3. Refers to 444/03.

461. McCracken, A.—14 Dec. 1903. Explosive consisting of picric acid and glycerine with ammonium carbonate and addition of infusorial earth, nitrate of potash, and sulphur.

462. McNair, C. C.—30 June 1904. Bicycle with hinged arm to be used as support when standing. 2.

463. Paul, J. H.—24 May 1904; U. K. 72/03. Hydrocyanic acid and cyanides prepared from ferrocyanide of calcium or of calcium and potassium.

464. Corrington, M.—23 Nov. 1904; U. K. 22,372/03. Railway vehicle fluid pressure brake valve arranged for applying brakes where desired in engine or vehicle. 4.

465. Blair, R., & Gonin, B. W.—14 June 1904; U. K. 11,146/03. Wood planing and moulding machine with fixed cutters and roller feed. 4.

466. Thomsson, G. N.—1 Feb. 1904. Brushes made from borassus fibre by twisting and rolling as described. 3.

467. Walker, A. E. & G.—15 Dec. 1903; U. K. 16,156/01. Weaving; shuttle changing mechanism, shuttle boxes and weft cutting arrangements. 4.

468. **Suzuki, T.—9 Feb. 1904. Sugar manufacture; juice evaporated shallow pans in vessel which is exhausted and to which air is a mitted at intervals. 3.**

469. **Hamilton, R. S.—16 Feb. 1904. Tea cultivator for working soil betwe the rows. 1.**

470. Welch, R. W.—24 June 1904; U. K. 22,838/03. Rice, etc., hulli machine with endless corrugated belt passing under wire bristles.

471. Farquhar, J. F. C.—15 Jan. 1904; U. K. 22,842/02. Oil lamp of centr draught type. 1.

472. Eaton, E.—29 March 1904; U. K. 2370/03. Bricks made from sand, et mixed with lime; mixing and maturing appliances. 1.

473. Buit, P. D.—29 Jan. 1904; U. K. 21,518/03. Cartridge charges ma of rolled, slit sheet of explosive. 2.

474. Palmer, J. E.—24 May 1904. Composition of arsenic and copper su phides with alkali, etc., for branding animals by removing the ha where applied.

475. Mouchel, G. L.—9 March 1904; U. K. 17,738/02. Pile and caiss construction for foundations, wharves, piers, etc. 5.

476. Lamb, C. W.—10 March 1904. Harness saddle of light construction.

477. Westrum, L. S. V.—22 March 1904; U. K. 7201/03. Laying dust roads by sprinkling water mixed with an oily substance.

478. Westrum, L. S. V.—22 March 1904; U. K. 10,210/03. Laying dust i mines by sprinkling water mixed with an oily substance.

479. Westrum, L. S. V.—22 March 1904; U. K. 15,960/03. Laying dust roads by treatment with solutions of hygroscopic salts and o substances.

480. Westrum, L. S. V.—22 March 1904; U. K. 21,195/03. Laying dust roads by using water and oily substances as binding.

481. Barber, T. W.—3 June 1904; U. K. 11,430/02. Tubes for boilers, co densers, etc., made with constructions by bending or filling. 1.

482. Crossley, B.—18 May 1904; U. K. 11,238/02. Weaving; automatical changing shuttles in bobbins, shuttle boxes, automatic stop moti and pickers for looms. 2.

483. Wyers, W. H.—3 June 1904; U. K. 10,729/02. Yeast filtering a drying apparatus. 3.

484. Cummings, W. J. & H. G., Chamberlain, R., & Lougheed, N. S.— June 1904; U. K. 17,411/03. Ship salving; arrangements for passi a line under a submerged vessel. 2.

485. Smith, W. M.—4 Jan. 1904; U. K. 11,594/03. Breaking and scutchi ramie, jute, etc., by revolving beater arms and roller feed. 4.

486. Pierpont, F. H.—17 March 1904. Glass bottle making machines. 6.

487. Sutton, G. W.—30 June 1904. Tea cultivating machine for ploughi between the rows and under the bushes. 1.

488. Sutton, G. W., & Rolfe, J. H. H.—Tea manufacture; fermenting floo or racks of enamelled iron. 2.

489. D'Cruz, L. C.—Decorticating machine for fibre with blades on r volving drum. 1.

490. **Wakefield, H. E. A.**—3 June 1904; U. K. 18,842/03. Fishing-twisted wire traces for tackle. 1.

491. Steuart, C. F. de K.—11 June 1904; U. K. 10,601/02. Jet apparatus for delivering furnace gases at high velocity for oil or gas firing or driving turbines. 2.

492. Courts, W. C.—11 June 1904; U. K. 2335/02. Smoke consuming boiler furnaces with valves on air inlet through dead plate controlled by furnace door. 1.

493. Courts, W. C.—11 June 1904; U. K. 10,819/02. Smoke consuming boiler; furnaces with air jets from dead plate and with incandescent blocks. 1.

494. Galbraith, D. R. S., & Steuart, W.—11 June 1904; U. K. 25,032/03. Electric furnaces with internal resistances for melting iron ores, the charge descending as a shower through the heating zone. 2.

495. Galbraith, D. R. S., & Steuart, W.—11 June 1904; U. K. 25,033/03. Similar to 494 above with direct as well as indirect heating. 1.

496. Gordon, F. W.—Wash hand basins with partition.

497. Bawden, W. R.—5 March 1904. Clinostat for surveying deep bore holes. 1.

498. Turck, F.—12 Feb. 1904. Chunam boxes stamped in two parts from sheet metal. 1.

499. Cardew, H. M., & Lyons, P. A.—11 April 1904. Balanced slide valves with dividing plates for locomotives and other engines. 3.

500. Cummins, M.—16 Aug. 1904; U. K. 11,592/03. Railway vehicle brakes applied by movement of operating mechanism in either direction. 2.

501. Armbruster, W. J., & Morton, J.—24 June 1904. Gold ore chlorination barrel with chlorine generator and heating attachments. 5.

502. Seguin, L. L. A., & Sales, J. F. G. de R. de.—17 June 1904; U. K. 22,986/03 Artificial caoutchouc is formed by reacting on coal tar with the ferment from the virgin material.

503. Jacobson, S. H.—17 June 1904; U. K. 16,190/02. Ventilator for railway vehicles, etc., with double beat flap valve in hood. 1.

504. Shilton, G. T., & Chultze, A.—26 Jan. 1904; U. K. 19,930/03. Pneumatic tyres with reversible outer covers. 1.

505. Boyd, J.—16 Jan 1904; U. K. 18,860/01. Spinning machinery with tensioning arrangements for endless belt driving a series of spindles in mule and ring machines. 3.

506. Mackay, J.—21 Dec. 1904. Music; pivot joints or hinges for hammers, etc., of key board instruments. 1.

507. Hathirm, Merwanji Nowroji.—13 May 1904. Baling presses for cotton etc., with hollowed or concave lashing plates. 1.

508. Maxwell, H. M.—Bridles with metal loop or catch attachment of reins and straps. 1.

509. Laszlo, C.—Electricity; safety cut out attachment for broken trolley, etc., wires. 2.

510. Khan, Rakhal Dass.—5 March 1904. Rice hulling, etc., machine with horizontal drum containing revolving beaters. 1.

511. Collingwood, C. C.—23 May 1904. Gramophone record press or holder with indexing attachments. 1.

512. Belanger, V.—28 April 1904. Spinning machinery with belt and friction gear for positively driving both the ring and the spindle. 2.

513. Belanger, V.—28 April 1904. Spinning machinery with speed multiplying friction gear between the spindle and the belt. 1.

514. Holand, G. E., & Johnston, H.—12 Feb. 1904; U. K. 19,631/03. Epicyclic toothed driving gear for coal elevators, etc., enclosed in the drum to protect it from dust. 2. Refers to 316/02.

515. Ozonised Oxygen Co.—26 April 1904; U. K. 14,757/03. Wheat, flour, etc., is conditioned by treatment with ozone and chlorine or other gaseous bleaching agent. Chlorine is generated from brine by electrolysis. 2.

516. Mitchell, W. C.—16 Aug. 1904; U. K. 25,520/02. Railway vehicle brake rigging for applying wheel and track brakes. 2.

517. Schnitzer, H.—24 June 1904; U. K. 21,292/03. Heating food, water, etc., by chemical means such as reaction between water and suitable material in a cartridge. 1.

518. Soc. F. Revel Père et Fils.—2 Feb. 1904; U. K. 23,172/03. Umbrellas, etc., held closed by movable ring fitting over tips of ribs. 1.

519. Proudlock, R. L.—Rubber tapping knife with hooked blade. 2.

520. Barber, T. W.—24 June 1904; U. K. 19,087/02. Variable speed and reversing toothed gearing for motor cars, winches, etc. 3.

521. Barber, T. W.—31 Aug. 1904; U. K. 19,158/02. Wheels with tangential spokes and spring hubs. 1.

522. Armstrong, E.—27 July 1904; U. K. 13,639/02. Journal lubricators for railway axles, etc., consisting of pad, frame and capilliary feeders. 1.

523. Soda Stream, Ld., & Hucks, W.—25 July 1904; U. K. 18,435/03. Aerating liquids in bottles by gas drawn direct from gas container. 1.

524. Regenbogen, R.—25 July 1904; U. K. 7937/03. Steam turbines, construction of nozzles, adjustments, etc., for Pelton bucket and inward flow types. 2.

525. Proudlock, R. L.—Fibre extracting machine with pivoted knife controlled by spring and treadle for country use. 1.

526. Jatashanker Kuberji.—6 April 1904. Cotton gin rollers are made of, or faced with, compressed paper.

527. Ridings, W. R.—23 March 1904; U. K. 2277/03. Electric arc lamps with magazine holder for carbons. 2.

528. Cotton, F.—11 May 1904. Heavy oil burner for furnaces with oil and steam heaters and vaporizing chamber. 1.

529. Dougall, J. R.—31 March 1904; U. K. 16,011/03. Linotype machine details. 9.

490. Wakefield, H. E. A.—3 June 1904; U. K. 18,842/03. Fishing-twisted wire traces for tackle. 1.

491. Steuart, C. F. de K.—11 June 1904; U. K. 10,601/02. Jet apparatus for delivering furnace gases at high velocity for oil or gas firing or driving turbines. 2.

492. Courts, W. C.—11 June 1904; U. K. 2335/02. Smoke consuming boiler furnaces with valves on air inlet through dead plate controlled by furnace door. 1.

493. Courts, W. C.—11 June 1904; U. K. 10,819/02. Smoke consuming boiler; furnaces with air jets from dead plate and with incandescent blocks. 1.

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507. Hathirm, Merwanji Nowroji.—13 May 1904. Baling presses for cotton etc., with hollowed or concave lashing plates. 1.

508. Maxwell, H. M.—Bridles with metal loop or catch attachment of reins and straps. 1.

509. Laszlo, C.—Electricity; safety cut out attachment for broken trolley, etc., wires. 2.

1904.

1. **Driver, A. H. M., & Norman, G.**—31 Aug. 1904; U. K. 12,804/02. Examining and straightening gun barrels and other tubes. 3.

2. **Driver, A. H. M., & Norman, G.**—23 Dec. 1904; U. K. 12,805/02. Boring machines for gun barrels, bolt holes of rifles, ordnance tubes. 6.

3. **Purton, F.**—27 July 1904; U. K. 947/03. Roof, etc., slabs of expanded metal covered with cement, etc., having embedded fastenings and asphalt selvages. 1.

4. **Dixon, G. G.**—27 Sept. 1904; U. K. 20,771/03. Pearls are extracted from mollusca by a process of rotting and washing by machinery. 2.

5. **Obernesser, R.**—27 July 1904; U. K. 21,732/03. Spinning; yarn is cleared from fly by curved grooved plate on the thread board between the rollers and spindles. 1.

6. **Stoney, E. W.**—24 March 1904. Sliding or hinged half doors for railway vehicles are geared by toothed rack or spur gearing so as to work simultaneously. 2.

7. **Hari Charan Nath & Bhupendra Nath Dutt**—Wheels of vehicles replaced by endless chain of rollers.

8. **Pennington, R. E.**—31 March 1904. Slit spring washer for locking nuts on fish bolts, etc. 1.

9. **Verrieres, E. J.**—12 July 1904. Railway crossing gates connected by rope or chain gearing so as to work simultaneously. 1.

10. **Timmis, I. A.**—16 Aug. 1904. Railway vehicle automatic couplings of the central hook type. 1.

11. **Mende, A.**—10 Aug. 1904. Gas or oil vapour lamp with one or more burners, auxiliary heating burner and means for controlling the mixture. 2.

12. **Consolidated Engineering Co.**—22 Feb. 1904; U. K. 18,256/02. Railway vacuum brakes; cylinder grooved to receive rolling packing ring when the piston is at the bottom of its stroke. 1.

13. **Moylan, W. M.**—17 Feb. 1904; U. K. 25,576/03. Rock drills of percussive type with tool struck by plunger reciprocated by gearing from hand crank. 1.

14. **Hatmaker, J. R.**—10 Jan. 1905; U. K. 8743/03. Dried milk is produced by evaporating milk, with or without addition of other substances, in thin films on revolving steam-heated cylinders between 212° and 270°F.

15. **Frictionless Engine Packing Co., & Parkes, G. W.**—10 Aug. 1904; U. K. 10,146/03. Driving belt surfaces are formed with loops or with a pile or nap to increase adhesion. 1.

16. **Morgan Crucible Co.**—17 Feb. 1904; U. K. 9608/03. Crucible furnaces of the tilting type. 5.

17. **Bhugwandass Tapidas.**—1 Aug. 1904. Moulds for casting metal pipes of special shapes built up with sectional cores and templets. 1.

18. Moore, M., & Heskett, T. J.—10 Aug. 1904. Iron and steel made direct from ore in various combinations of special forms of gas-fired vertical stepped shaft and inclined revolving furnaces for reduction, and finishing hearth. 4.

19. Macbeth, J. B. K.—18 Aug. 1904. Water cooling tower for condenser water with distributing troughs and baffles and louvred wall. 2.

20. Simmons, C.—26 Feb. 1904; U. K. 6222/03. Rock drills, of the kind used with a sledge, are lifted and turned between each stroke by an appliance worked by the foot of striker. 2.

21. Reid, W.—16 Aug. 1904; U. K. 13,556/03.Spun fibres treated in any desired number of vats for dyeing, bleaching, mordanting, washing, etc., in a manner resembling that used for treating banks and are pressed and dried at any stage without the use of hand labour. 7.

22. McMurtrie, J. M.—16 Aug. 1904; U. K. 28,618/02. Vapour burners with concentric steam, air and oil nozzles. 2.

23. Cattermole, A. E.—16 Aug. 1904; U. K. 26,296/02. Ores treated by agitating with alkaline emulsifying agents of successively increasing strengths and the constituents separated in upward current classifiers. 1.

24. Cattermole, A. E.—16 Aug. 1904; U. K. 18,589/03. Similar to 23 above. 1.

25 Rogers A. B. C.—26 July 1904. Mica soaked in water, ground with addition of sap of the banyan or alum, washed and dried for use as an insulating material for heat or cold. Refers to 99/03.

26. Birkeland, K., & Eyde, S.—18 Jan. 1905; U. K. 20,049/03. Air or gases are passed over an electric arc placed in a magnetic field for producing chemical reactions, especially for oxidising nitrogen. The furnace and means such as circuit breakers for controlling the current are described. 3.

27. Thackeray, S. W.—26 April 1904; U. K. 14,333/03. Key board and attachments for musical instruments adapted for playing at an absolute pitch or for transposing. 6.

28. Marshall, H., & Maton, J.- 26 Feb. 1904. Oil vapour lamp in which the chimney draught draws air through absorbent material charged with oil. 3.

29. Sayer, R. C.—26 Feb. 1904; U. K. 14,702/03. Railways of the overhead rope type. 3.

30. Rees, V. L , & Bulley, A. A.—Detaching sinew from crushed bones.

31. Shirtliff, F.—5 Sept. 1904. Vertical rice hulling machine with discs of various forms alternately placed in side casing and on a central revolving shaft. 1.

32. Pease, E. L.—27 Aug. 1904; U. K. 10,828/02. Building construction; sheet metal with tubular rafters or other elements for roofs, walls, etc. 1.

33. Perry, H. W.—23 Aug. 1904. Railway, etc., rails in sections laid to break joint. 1.

34. Mohamed Ali Ebrahimjee.—21 Nov. 1904. Oil mills with revolving pestles carried and driven by bevel gearing. 1.

35. Patterson, S. A.—25 Oct. 1904. Railway wagon doors with automatic catch released from outside by a pull rod which is secured by the couplings. 1.

36. Jagadiswar Ghatak.—Continuous boiling, heating cooling, drying, etc., machinery for treating paddy, etc., with steam or hot or cold air. The grain is moved by screws or air currents. 1.

37. Ingram, A. B., & Heard, T.—1 June 1904. Railway diamond crossings with connected moveable rail sections at the corners. 1.

38. Rugh, H. O.—29 March 1904; U. K. 28,699/03. Telegraphy, combined duplex systems of, with direct current stations protected by choking coils and alternating current stations by condensers and a relay containing a vibratory contact-element. Transmitting and receiving apparatus for both kinds of currents are described. 1.

39. Rugh, H. O.—29 March 1904; U. K. 28,700/03. Similar to 38 above. 1.

40. Rugh, H. O.—29 March 1904; U. K. 28,701/03. Similar to 38 above. 1.

41. Rakhal Dass Khan.—4 Aug. 1904. Steam boiling and drying apparatus for paddy. Waste heat from the drier raises steam for boiling. 1.

42. Nelson, G.—31 March 1904. Refrigerating machinery of the compression type with means for regulating the supply of the liquefied gas, straining it and separating oil. 2.

43. Pedley, T. F.—20 May 1904. Ventilation; pivoted louvres are made of S-section. 3.

44. Lombard, N.—10 March 1904; U. K 24,735/03. Relay governor for turbines, etc. 7.

45. Lajoie, J. P.—10 March 1904. Carbonic acid motor with means for heating the gas. 1.

46. Parker, B.—27 Aug. 1904. Vermin are destroyed by squirting doses of poison on to them by an automatic appliance, operated when the rabbit, rat, etc., passes over it. 1.

47. Pickles, T., & Blakey, B.—15 March 1904; U. K. 3405/03. Weft stop motion for looms with two independently pivoted parts. 1.

48. Ritscher, J.—15 March 1904. Crank with adjustable throw for cycles, etc. 3.

49. Hygiene Soap Granulator Co.—15 March 1904; U. K. 27,368/02. Soap is squirted in the form of a tube with a flat side and cut up into cakes. 1.

50. Wreford, F. C.—Cooling beverages.

51. Zanetti, V.—13 June 1904; U. K 25,213/03. In furnaces for steam generators, wire net coated with incandescing material is placed in the combustion chamber to aid in smoke consumption. 3.

52. Gutensohn, A.—12 March 1904; U. K. 27,888/03. Anti-corrosion and incrustation composition or alkalies, resin and zinc for use in boilers evaporating sea water.

53. Gahagan, R. H.—20 May 1904. Latrines for native use with diagonally arranged squatting plates. 1.

54. Palkhiwala, R. D.—Road vehicles with adjustment for height of the shafts. 1.

55. Rutnagur, S. M.—12 Sept. 1904. Doors and windows with double parts open below and above to permit ventilation when closed against sun or rain. 1.

56. Laurie, N. W.—5 Oct. 1904. Bolt fastening for holding railway and other doors and windows open or closed. 1.

57. Rothwell-Jackson, C. L., & Hunt, E. W.—31 Aug. 1904; U. K. 7872/03. Roller machine for chemicing, souring, bleaching, dyeing, mercerising, washing, etc., textile fabrics in the open state. 3.

58. Mills, G.—31 Aug. 1904; U. K. 15,386/03. Automatic sprinklers for fire extinction. 1.

59. Mercer, A. W.—War game.

60. Westinghouse, G.—31 March 1904. Railway pneumatic pressure brake with electrically governed release valve. 1.

61. Hygienic Soap Granulator Co.—22 March 1904; U. K. 23,991/02. Soap granulating apparatus for toilet use. 1.

62. Blackett, J. T.—8 Aug. 1904; U. K. 3898/03. Rotary rock drill, driven by air or other motor, for use in coal, ironstone, etc. 1.

63. Johnson, F. D.—8 Aug. 1904; U. K. 25,878/03. Pneumatic percussive hand tools with rotating tool holder. 2.

64. Decent, J. H.—31 March 1904. Boiler tube cleaner with spiral steam nozzle, guide, and flexible steam pipe. 1.

65. Harrington, B. R.—U. K. 9630/03. Refuse destructor furnace. 1.

66. Blower, T. H.—16 Aug. 1904. Composition of mica, caustic soda, lime and Epsom salts for covering roofs.

67. Walke, C.—Zinc holder for boiler anti-corrosion composition. 1.

68. Raetez, F. M. R.—23 Aug. 1904; U. K. 27,889/03. Soluble compounds of cresol or phenol and soap are solidified by mixing with an aldehyde or ketone and alkali, heating and cooling.

69. Improved Electric Glow Lamp Co—5 Oct. 1904. Screw or punkah fans with flanged blades to prevent central eddies. 1.

70. Lynds, E. D.—14 Dec. 1904. Bread making machine with means for mixing the liquids in the form of spray with the flour, heating, kneading the dough and expelling it as leaves. 3.

71. Green, W. W. W.—22 March 1904; U. K. 13,008/02. Box with hinged back and lid, convertible into a table and used for stable utensils, clothing, etc. 4.

72. Longworth, D—30 March 1904; U. K. 13,566/03. Sluice-gates with hydraulic means for balancing the forward pressure and dispensing with the well or tower the full height of the gates. 2.

73. Plummer, E. T.—31 Aug. 1904. Floors, etc., constructed of concrete, etc., slabs strengthened with embedded metal. 1.

74. Short, F. M.—12 Nov. 1904; U. K. 21,596/03. Rheostat with readily removable frames. 3.

75. MacBean, D. W.—16 Sept. 1904. Road vehicles of two wheeled type built mainly with bamboo and with ekka wheels, convertible into an ambulance. 2.

76. McKnight, R.—30 March 1904; U. K. 18,292/03. Fumes from volatilisation processes of ore treatment are condensed in a centrifugal washing apparatus. 2.

77. Westinghouse, G.—17 Sept. 1904. Turbines of the parallel flow type with one or more groups or rings of nozzles in the rotary member. 2.

78. Westinghouse, G.—17 Sept. 1904. Turbine with vertical shafts supported by fluid pressure to dispense with step bearings. 1.

79. Westinghouse, G.—17 Sept. 1904. Turbines of Parsons and other types with special arrrangement of fluid receiving passages. 3.

80. Leadbeater, A. & T.—31 Aug. 1904; U. K. 13,786/03. Detachable soles for boots and shoes and cutter for making them. 2.

81. Ram Singh Dongar Singh.—17 May 1904. Warping machine with reciprocating thread guide and skeleton drum with slot and other driving connection. 2.

82. Monamy, W. A.—14 Nov. 1904; U. K. 15,109/03. File for papers of vertical form made of wire. 1.

83. Peck, J. S.—7 May 1904. Electric distribution system with arrangement of rotary converters and transformers to control voltage. 1.

84 Sayer, R. C.—4 May 1904. Electric railway system with current picking up devices in the vehicle wheels. 6.

85. Radhakishore Singha & Jaminikanta Roy.—Swinging punkahs and revolving fans driven by clockwork. 4.

86. Aiyar, A. G. G., & Aiyengar, T. R.—19 Dec. 1901. Decorticating machine for plantain, etc., fibre with gripping drum for drawing material under a knife and brushes. 1.

87. Ellis, E. E.—3 June 1904. Combined letter and key lock. 3.

88. Luco Compress and Cotton Company.—4 Oct. 1904. Cotton baling press in which loose cotton is fed to reciprocating platens to form a wad which is then folded and compressed. 5.

89. Duryea, O. C., & White, M. C.—17 May 1904. Internal combustion double acting engine applicable to rock drills, etc. 6.

90. Hislop, R. C.—30 Sept. 1904. Soldering bath for tin cans. 1.

91. Croft, F. L., & Perkins, T. A.—30 Sept. 1904; U. K. 1802/02. Self lubricating bearings of plummer block, pedestal and other types. 1.

92. Norrie, R.—27 Sept. 1904. Metal punching and shearing machine. Refers to 54/03. 3.

93. Bamber, M. K.—Jute and other fabrics are fireproofed with solutions of salts of alkalies or ammonia 1.

94. Skone, T.—Protector for use in opening aërated water bottles. 1.

95. Loffler, O., & Weidle, W.—19 July 1904; U. K. 24,149/03. Pocket suction filter. 1.

96. Lahiri, S. R.—Rice hulling and cleaning mill with horizontal grooved plates or stones. 1.

97. Lincoln, P. M.—6 Oct. 1904. Electric distribution of alternating and direct currents and automatic switch for cutting in apparatus suitable to the current supplied. 1.

98. Illy, E., & Buchholtz, E.—11 Oct. 1904; U. K. 3887/03. Steam, etc., turbines with alternate fixed and rotary perforated discs. 5.

Invention 1904.

99. Norton, H. B., & Tinson, J.—26 April 1904. Flushing cistern for water-closets with valves worked from seat. 1.

100. Creed, F. G., & Coulson, W. A.—13 July 1904; *U. K. 22,653/02.* Controlling typewriting and type setting *machines used for translating*, or reproducing in ordinary characters, *telegraphic messages* from perforated tape of Wheatstone or Morse instruments. 4.

101. Kellner, C.—4 Oct. 1904; U. K. 20,889/03. Electrolysis of alkaline chlorides for alkali and chlorine conducted in cells divided by a porous partition. 2.

102. Hall, J.—26 July 1904; U. K. 385/03. Concrete pipes with embedded wires are made in a revolving built up mould with movable core. 2.

103. Darling, J. D.—11 Oct. 1904. Graphite is recovered from ores by a form of oil separation process. 1.

104. Deakin, W. H.—Support for roller frames of railway point and signal rods. 1.

105. Window Glass Machine Co.—15 April 1904; U. K. 297/04. Glass sheets drawn from the molten metal in the furnace and annealed. 4.

106. Visvesvaraya, M.—10 March 1905. Module constructed with a float and flexible tube to give constant discharge from varying level. 2.

107 Stanton, C. W.—11 Oct. 1904. Condensing and receiving apparatus for refining and purifying products from furnaces, stills, etc. 2.

108. Revel, A. A.—3 May 1904; U. K. 2601/04. Umbrella with metal stick and spring runner. 1.

109. Wainwright, H. S.—13 July 1904; U. K. 20,665/05. Locomotive spark arrestor and draught inducer. 1.

110. Wainwright, H. S.—13 July 1904; U. K. 22,276/03. Locomotive spark arrestor and draught inducer. 2.

111. Yule, W. R.—1 Oct. 1904; U. K. 750/04. Chain support for lamps and other articles with receptacle and catch for adjusting its length. 1.

112. Steel, A.—11 Oct. 1904; U. K. 19,414/03. Cotton gin rollers made of paper or paper-pulp with a cut, grooved or roughened surface. 1.

113. Ridings, W. R.—7 May 1904; U. K. 11,900/03. Electric arc lamps with inclined electrodes. The arc controlling magnet also controls the feed and discs or washers are used in the contacts. 1.

114. Robinson, J. F.—Cotton gin.

115. Gelly, J. C.—14 July 1904; U. K. 2084/04. Hydraulic ram apparatus for raising water, etc. 2.

116. Hauser, I. L.—11 Oct. 1904. Grain and seed cleaning and separating apparatus with grooved feed roller, fan and reciprocating sieves. 3.

117. Whyte, A.—16 June 1904. Tea and coffee pots. 1.

118. McDermott, J. H.—15 July 1904. Galvanised dog-spike with serrations on head and shank. 2.

119. Lord, W.—31 Aug. 1904. Illuminating and heating gas is made by pumping air by a heat engine through a carburettor containing petrol or other volatile oil. 1.

120. Sutton, G. W.—25 Oct. 1904. Tea panning and rolling-machine with a steam-heated table revolving under a fixed open frame. 1.

121. Soc. des Appareils de Contrôle et de Comptabilité Automatique, Frydmane, J., & Chambon, L.—12 Oct. 1904; U. K. 1109/04. Cash registers with drawers controlled by breakage or end of the tape rolls. 2.

122. Soc. des Appareils de Contrôle et de Comptabilité Automatique Frydmane, J., & Chambon, L.—12 Oct. 1904; U. K. 1110/04. Cash registers with arrangement of composing discs for sums to be registered or totalized. 4.

123. Frydmane, J., & Chambon, L.—12 Oct. 1904; U. K. 21,111/04. Cash registers with special totalizing arrangements. 7.

124. St. George-Moore, R. St. G.—11 Oct. 1904; U. K. 16,106/03. Railway point operating, locking and indicating gear. 2.

125. Carlson, S.—12 Oct. 1904. Pressure reducing and safety valve. 1.

126. Lund, J. G. F.—27 April 1904; U. K. 28,265/02. Artificial stone and slabs with grooved and tongued edges for building walls. 1.

127. Lund, J. G. F.—27 April 1904; U. K. 20,855/03. Artificial stone and slabs with tongued and grooved edges for building floors, etc. 1.

128. Bell & Co., J. J.—17 June 1904. Putties are made with worsted or other elastic weft and cotton or other non-elastic warp.

129. Parry, W., & Wright, J. M.—Scavengering system with refuse receptacles adapted for transport by road and rail. 1.

130. Mitchell, G.—26 July 1904. Manure consisting of oil-cake or meal mixed with lime.

131. Albertini, C.—27 May 1904. Artificial stone is made of laterite, inferior iron ore and cement.

132. Nawab Hozoor Meerza —25 Oct. 1904. Combined pack and saddle and wheeled platform adapted to run on the road to carry sleepers, etc. 1.

133. Mohamed Sakhi.—26 Sept. 1904. Flour mill with horizontal stones and roller bearings for various parts. 3.

134. Hart, H.—25 Feb. 1905. Coffee is peeled or husked between inclined reciprocating plates or sieves. 1.

135. Westinghouse, G.—29 Oct 1904; U. K. 22,720/03. Steam turbine with special arrangements of impact nozzles and blades. 1.

136. Marconi's Wireless Telegraph Co.—11 Nov. 1904. Wireless telegraphic receiving station with several earth connections of different inductance and capacity. 1.

137. Sambon, L. W.—3 June 1904; U. K. 10,224/03. Convertible cloak, stretcher, hammock, bed and float. 1.

138. Sturgis, H. M.—29 Oct. 1904. Roller furniture for blinds, maps, advertisements, etc. 3.

39. Memarachi, N. E.—Dessicated soup prepared from meat and vegetables.

40. Morgan Crucible Co.—5 May 1904; U. K. 1695/04. Cupels are hollowed underneath. 1.

41. Morgan Crucible Co.—5 May 1904; U. K. 1694/04. Muffles with air supply passages. 1.

42. Sircar, S. C.—8 March 1905. Tanas are made on a horizontal revolving wheel provided with pins over which the thread is led by a reciprocating guide worked from the driving handle. 2.

143. Leslie, W.—28 Feb. 1905. Pakhal or portable water tank with special attachments for filling, emptying, heating, cooling, etc. 1.

144. Priya Nath Basu.—Plough for bullock or horse with two shares and wheels, and with drilling attachment. 1.

145. Bubne, D. A., & Shaik Mahomed Shaik Ahmed.—30 Sept. 1904. Warping machine with fixed horizontal cylinder and bobbins or cops carried round it by revolving frame. 3.

146. Watson, E. F.—Germination of seeds is facilitated by scoring the coat in a machine consisting of a drum revolving in a casing. 1.

147. Johnson, G., & Hare, P. R.—23 May 1904; U. K. 10,093/03. Ferments for wort, etc., are obtained from saccharine solutions in which eucalyptus leaves are immersed.

148. Lobnitz, F.—11 Nov. 1904; U. K. 27,427/03. Dredging apparatus with arrangement of screens for discharging stones, used for treating auriferous, etc., deposits. 2.

149. Claussen, N. H.—11 Nov. 1904; U. K. 28,184/03. Preparation of English beers or malt liquors with the aid of a particular form of yeast culture.

150. O'Hara, J. G. M.—19 Nov. 1904. Combination letter lock especially for railway wagon doors. 1.

151. Kirkegaard, G., & Jebsen, F.—8 Aug. 1904. Bottle stopper of the cap type with slotted toggle fastening to tighten a band round the flange. 1.

152. Keatinge, S. A. J., & Pope, A. W. U.—Latch fastening with sealing device fitted to the top of railway wagon doors. 1.

153. Turton, C. A.—17 Sept. 1904. Folding platform or sling for loading and unloading cargo. 1.

154. Mojumdar, A. K.—7 Sept. 1905. Pencils and a lac substitute are made with coloured stearates or oleates of metals such as iron, copper, lead, mercury, nickel, gold, etc. The pencils may be used for marking or painting.

155. Turton, C. A.—17 Sept. 1904. Blending and bulking apparatus for tea, grain, etc., with hopper stirrer and alternate conical and inverted annular conical baffles in vertical casing. 1.

156. Glascott, G. A.—9 Jan. 1905. Railway signals; wedge on wire working the distant signal operates one of two home signals. 1.

157. Harrington, B. R.—14 Jan. 1905. Portable furnace for incinerating refsue. 1.

158. Hall, J. W.—30 Sept. 1904. Spray carburettor for internal combustion. 2.

159. Ganga Ram.—Orrery. 1.

160. Dastur, H. F.—16 Aug. 1904. Push cock with special form of push and casing. 1.

161. Scholder, C. A.—22 Nov. 1904; U. K. 8483/03. Therapeutic exercising apparatus for treating stiff joints. 2.

162. Mather & Platt, Ld.—26 July 1904; U. K. 12,900/03. Stop and indicator mechanisms for looms, warping machines, etc. 3.

163. Velvril Co.—11 Nov. 1904; U. K. 13,306/03. Indiarubber substitute made by prolonged heating or oxidizing of nitrated castor and litre oils.

164. Goldie, A. S.—11 June 1904; U. K. 17,933/03. Collapsible core bars used in casting pipes and other hollow articles. 2.

165. Foreign McKenna Process Co.—12 Sept. 1904; U. K. 27,614/03. Universal rolling mill for rolling or re-rolling railway rails. 1.

166. Flockhart, W. B.—16 Aug. 1904. Wood feeding appliance for circular saw machines employed in cutting tea boxes. 2.

167. Green, M. R.—16 June 1904. Bottle stoppering device for preventing fraudulent refilling. 1.

168. Soc. An. Mestinghouse, & Leblanc, Mr.—16 June 1904. Cooling arrangements for houses, etc., consisting of fountains supplied with water which is circulated through vacuum tank for cooling it by evaporation. 1.

169. Starret Cotton Gin Co.—19 July 1904; U. K. 11,911/03. Cotton gin with vibrating fingers and rotating drum in an exhausted casing. 1.

170. Mylin, A. H., & White, L. B.—10 June 1904. Steam generator and other furnaces in which the combustion chamber is surrounded by a casing through which coal and air are supplied to ensure smoke consumption. 2.

171. Vickery, W. & G., & Harding, J.—25 May 1904; U. K. 24,849/03: Fastenings for boxes, etc., with ticket or seal destroyed by opening. 3.

172. Martin, T. A.—14 Dec. 1904. Boring and sludging tools for deep bore holes. 1.

173. Greengrass, C. J.—Boot with high upper, open in front and closed by tongue, strap and lace fastening. 1.

174. Veerasawmy Naicker, T. M.—Water lift with balanced guided tilting buckets and winch lifting gear. 3.

175. Laforet, J.—30 June 1904; U. K. 23,065/03. Loom picking motion and shuttle checking devices. 1.

176. Goodwin, J. M.—22 Nov. 1904. Dumping contrivance for barges, bins, railway wagons, etc., with valves of several compartment operated successively. 1.

177. Hodgkinson, J.—2 Dec. 1904; U. K. 18,571/03. Ginning and burring apparatus with spiked roller in hooper and with vibrating knives and clearers working with a lower roller. 7.

178. Elieson, C. P.—22 Nov. 1904. Electric accumulator plate construction. 2.

179. Shaw, J.—31 May 1904; U. K. 27,438/02. Railway non-automatic couplings with locking device for pins, adapted for use in mines. 3.

180. Connell, R. D.—27 Sept. 1904. Railway point and signal locking gear with key. 2.

181. Macquisten, A. P. S.—3 June 1904; U. K. 11,730/02. Warp stop motion and thread breakage indicator for looms. 1.

182. Macquisten, A. P. S.—9 June 1904; U. K. 15,226/02. Electrically controlling mechanism applicable for warp stop motion of a loom, starting gear of loom or gin, working railway points or signals, etc. 3.

143. Leslie, W.—28 Feb. 1905. Pakhal or portable water tank with special attachments for filling, emptying, heating, cooling, etc. 1.

144. Priya Nath Basu.—Plough for bullock or horse with two shares and wheels, and with drilling attachment. 1.

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159. Ganga Ram.—Orrery. 1.

160. Dastur, H. F.—16 Aug. 1904. Push cock with special form of push and casing. 1.

161. Scholder, C. A.—22 Nov. 1904; U. K. 8483/03. Therapeutic exercising apparatus for treating stiff joints. 2.

162. Mather & Platt, Ld.—26 July 1904; U. K. 12,900/03. Stop and indicator mechanisms for looms, warping machines, etc. 3.

203. **Shaw, E.**—2 Dec. 1904; U. K. 4112/04. Similar to 201 and 202 of 1904. 4.

204. **Moller, G.**—14 Dec. 1904. Wireless telegraph receiver with microphone in coherer circuit and telephone in a separate circuit. 1.

205. **Moller, G.**—7 Dec. 1904. Wireless telegraphy receiver with relay or Wheatstone apparatus. 2.

206. **Vesta Storage Battery Co.**—5 Oct. 1904. Electric storage battery using silver, nickel, mercury and copper in zincate of potash. 6.

207. **Jadhava, K. B.**—Match splints made from prepared reeds or grasses.

208. **Burton, E. G.**—Axle mounting for stone rollers. 1.

209. **Hall Signal Co.**—30 June 1904. Railway signalling apparatus with signal motors operated by liquified gas and electric control. 3.

210. **Braga, A. R. Dasilva.**—6 Jan. 1905. Meat is steeped in a hydrochloric acid extract of papaw fruit until disintegrated, then dried and powdered or compressed.

211. **Braga, A. R. Dasilva.**—6 Jan. 1905. Meat extract prepared by digesting meat with fruit of the papaw family in dilute hydrochloric acid, removing fat, concentrating and adding glycerine.

212. **Rapid Cyanide Treatment, Ld.**—14 Dec. 1904; U. K 26,391/03. Cyanide process for extraction of gold, etc., conducted with the aid of continuous suction filtering apparatus of revolving barrel form. 1.

213. **Carlson, S.**—14 Dec. 1904; U. K 6847/04. Oil vapour lamp with spirit troughs for ignition. 1.

214. **Hind, T. F., & Lund, R.**—7 Sept. 1904; U. K. 3733/04. Paddy and other grain is dried and conditioned by hot air in apparatus consisting of perforated troughs and screw conveyors. 1.

215. **Apjohn, J. H.**—18 Jan 1905, U. K. 2287/04. Tea bulkers or blenders; tea is dropped from a hopper-bottomed trough provided with valves into a second trough whence it is returned to the upper trough by a belt and other conveyor. Refers to 55/99. 1.

216. **Ditmar, G.**—20 Dec. 1904 Lantern glass fastenings consisting of spring hinged holders 1.

217. **Merkt, L. A.**—8 Aug. 1904, U. K. 8842/03. Gas engine, combined mixing and throttle or admission valves. 1.

218. **Walke, C.**—22 Aug. 1904. Cotton gin rollers built up of interlocked pieces of leather. 1.

219. **Gaston, G.**—9 Sept. 1904 Railway signalling apparatus for indicating dangerous condition of bridges and automatically stopping trains. 9.

220. **Robinson, J. F.**—Cotton gin.

221. **Kingsland, W.**—23 Dec. 1904; U. K. 2774/03. Electric switches operated by ratchets to give rotary step by step motion suitable for electric railways, etc. 3.

222. **Ceipek, N.**—30 June 1905. Explosive consisting of the nitrates of ammonium, aniline, and potassium, with or without the addition of picric acid

223. Moore, G.—23 Dec. 1904. Filtering apparatus applicable for gold extraction processes, etc., with filtering elements transferable from tank to tank. 3.

224. Burmah Oil Co.—Oil storage and distribution.

225. Bergmann, E.—10 Dec. 1904; U. K. 1122/03. Friction driving gear for motor cars, etc., with means for varying the pressure. 1.

226. Daboo, D. M.—18 March 1905; U. K. 5064/04. Railway signals, points and crossing gates are worked and interlocked by an electric system in which the train may determine the control. 3.

227. Datta, Durga Das.—Medicine.

228. Elers, K. F.—23 Dec. 1904. Electric machines, ring brush holders for, specially for railway, etc., motors with limited space. 1.

229. Chemisch Technische Fabrik, Dr. Alb. R. W. Brand & Co.—13 July 1904; U. K. 5594/03. Stone, ivory, etc., is coloured and hardened by impregnating with one or more solutions which may react, the material being dried in vacuum before each impregnation.

230. Graaff, W.—23 Dec. 1904; U. K. 1166/03. Fire extincteur casing and acid bottle breaking arrangements. 1.

231. Bose, Kunja Behari.—Travelling trunk with rounded edges made of wood. 1.

232. Siegfried, R., & Mills, C. B.—10 Dec. 1904. Electric machines, parallel motion brush holders for. 1.

233. Tarver, H., & Mackwood, F. E.—Tea-colouring and polishing green tea.

234. Drury, W. H.—3 Jan. 1905; U. K. 6602/04. Spinning machinery which may be used for making core yarn; material from the carding cylinder is divided by ring doffers into strips which are then formed into rolls, drawn out lengthwise, and spun into yarn with or without a core. 9.

235. Drury, W. H.—3 Jan. 1905; U. K. 6601/04. Yarn composed of spun core covered by spun envelope which may be of material difficult to spin alone.

236. Duperier, H. W.—Punkah pulling apparatus with variable crank connection to electromotor and electric starting and releasing gear. 5.

237. Irani, K. S.—25 Nov. 1904. Water lift or mote with balanced buckets, reversing means for bullock gear and tilting appliances. 1.

238. Chitty, H.—3 Jan. 1905; U. K. 19,522/03. In dynamos, motors, rotary transformers, etc., the end-plate of the rotating portion is constructed to assist the ventilation. 1.

239. Chitty, H.—3 Jan. 1905; U. K. 20,820/03. In dynamos, motors, and rotary transformers, etc., the magnetic flux distribution is controlled by a bridge on the poles or by their form. 1.

240. Maggi, J.—7 June 1905; U. K. 9681/04. Milk, before evaporation to produce milk powder, is squirted under pressure in small jets to mix the milk and render the product soluble. 1.

241. Nicolaidi, J.—1 Feb. 1905; U. K. 14,961/02. Cattle food; phosphoric acid is incorporated with nutritive or other absorbent material, including peat, so that it may be dissolved out or used as supplied.

242. **Boutillier, L.—3 Jan. 1905. Gas producers of vertical and incline** types with screw feed for fuel below the incandescent mass so tha tarry matters are decomposed as they pass upwards. 1.

243. **Duncan, D., Harwood, H., & Stratton, F. B.—Cotton gin rollers an** knives treating.

244. **Ballullaya, Narayana.—Boats and paddle wheels driven by hand power** 1.

245. Harrington, N. T.—13 Sept. 1904. Motor cars; details of body, engine gearing, etc. 10.

246. Woodcock, W. J.—3 Jan. 1905. Ice-making; plate ice is made at temperature below zero Fahr. on a yielding surface such as india rubber. 1.

247. Regenbogen, C., & Rund, E.—6 Jan. 1905; U. K. 18,237/03. Electri igniter mechanism for internal combustion engines operated by th inlet valve operating rod. 1.

248. Peddie, J. T.—21 Nov. 1905; U. K. 20,429/03. Sights for rifles, etc. with means for adjusting and locking the cross-bar and allowing fo wind. 1.

249. Banwari Lal.—Sugarcane mill with ratchet and other gearing. 1.

250. Millard, F. T., & Lindsley, M. M.—10 Oct. 1904. Railway vehicles central buffer and side screw couplings with equalizing gear. 1.

251. Clover, A. M.—26 Sept. 1904. Antiseptic compounds of the nature o succinic or other organic peroxide acids.

252. Maxwell, H. M.—1 Feb. 1905. Bridle with means for securing bit an reins. 1.

253. Pearce, L.—16 Aug. 1904. Rack and pawl sash fastener for railwa carriage and other windows. 1.

254. Bonsall, S. W.—5 Oct. 1904. Wardrobe with pivoted carriers to facilitate inspection of clothes. 2.

255. Stephens, W. C.—19 July 1904; U. K. 9374/04. Rock drills; sprayin device for laying dust. 1.

256. Judge, C. G. L.—9 Jan. 1905. Tea; leaf sterilised, rolled and dried, i the manufacture of green or black tea, between a conveying bel and a stationary or revolving cold or heated drum. 1.

257. Walker, R. B., & Sandford, F. R.—6 Jan. 1905. Railway signals i which the signal arm at danger is disconnected from the draw wir and the passage of a train throws the signal to danger; recordin mechanism is attached. 3.

258. Planters Compress Co.—6 Jan. 1905; U. K. 7866/04. Baling press fo hemp cotton and other fibrous material with a stationary slotte head to which the material is fed automatically, and a rotatin yielding platen, forming part of a hydraulic press, by which th fibres are coiled spirally into bales of uniform size, with arrangements for tying and discharging. 11.

259. **Memarachi, N. E.—Coffee and milk tablets.**

260. Satin, K. M.—3 Aug. 1904. **Puncture proof bands for pneumatic tyre** made of canvas and metal. 3.

261. Cole H. E.—8 April 1905. **Bucket or shoe and hook for carrying** rifle or gun on horse back. 1.

223. Moore, G.—23 Dec. 1904. Filtering apparatus applicable for gold extraction processes, etc., with filtering elements transferable from tank to tank. 3.

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241. Nicolaidi, J.—1 Feb. 1905; U. K. 14,961/02. Cattle food; phosphoric acid is incorporated with nutritive or other absorbent material, including peat, so that it may be dissolved out or used as supplied.

281. Turchi, C., & Brune, E.—15 Nov. 1904; U. K. 7585/03. Simultaneous telephone and telegraph system with single line wire. 1.

282. Sargent, F. W.—5 Oct. 1904. Railway brakes with detachable cast shoe or block. 1.

283. Tate, J. E.—12 Dec. 1904. Saddle for draught or pack purposes. 1.

284. Goldie, A. S.—2 Aug. 1904; U. K. 1734/04. Furnaces for steam generators, arrangement of fuel surface and air supply. 3.

285. Watson, E. F.—19 Nov 1904. Seeds are treated to facilitate germination by scouring in impact grinding apparatus. 1.

286. Kimball, R. E.—30 Aug. 1904; U. K. 8275/04. Rice is hulled by blowing it through a specially shaped tube with frictional surfaces. 1.

287. Clark, P. D. G.—27 Jan. 1905; U. K. 18,110/03. Heating air for drying tea, etc. The products of combustion from the firebox are led through incandescent material to which heated air is supplied. 2.

288. Tulloch, S.—3 Feb. 1905. Railway scotch blocks with two blocks engaging wheel and rail and attachment for locking them. 1.

289. Jefferson, C. W—23 Aug. 1904; U. K. 12,178/04. Mica in scales or pieces is converted into sheets by machinery in which shellac is applied to the pieces with aid of heat. 4.

290. Taylor, E. Z—3 Aug. 1904; U. K. 4591/04. Rotary web machine for printing labels or more colours for bronzing part of the design and for cutting up and delivering the printed labels. 3.

291. McPherson, C. J.—3 Feb. 1905; U. K. 20,123/03. Cotton ginning machine with rotary toothed clearing member and deflector for seed. The ginning rollers and other parts are duplicated and run in opposite directions to control the air currents. 2.

292. Venkataramanier, C.—14 Feb. 1905; U. K. 15,079/04. Wheels and axles for carriages, one wheel fast and the other loose on the axle and arrangement of bearing for axle. 1.

293. Swan, P. S—6 Aug. 1904; U. K. 16,072/02. Electromotors for ceiling fans with special bearings and wire connections or armature and commutator. 4.

294. Marker, H. F.—9 Jan. 1905. Copy books for teaching writing with the aid of partly formed letters. 1.

295. Greengrass, C. J.—28 Jan. 1905. Windmill of horizontal type with pivoted feathering vanes. 1.

296. Ozonized Oxygen Co.—Ozonizing apparatus for bleaching and sterilizing. 1.

297. Poulsen, V.—31 Aug. 1904; U. K. 15,599/03. Electric distribution, wireless telegraphy. High frequency alternating currents are obtained from a direct current source by connecting a circuit containing a condenser and self-induction in shunt with a conductor such as an arc lamp in an atmosphere containing hydrogen. 4.

298. Alsop, J. N.—4 Feb. 1905; U. K. 10,538/04. Air passed over electric arcs which are interrupted at intervals with the object of producing ozone and nitrogen oxides. Means for controlling the arc are described. 2.

299. Parziale, T.—4 Feb. 1905; U. K. 1303/04. Soaps are made by mixing flour with cotton seed oil and saponifying with coustic soda lye. Oil of sulphur, alcohol and other materials may be added.

300. **Hislop, G. R.—11 Aug. 1904; U. K. 2228/03. Steam generator and** other furnaces with mixing chamber for air and gas **and with means** for supplying heated air for complete combustion. 3.

301. **Hislop,** G. R.—11 Aug. 1904; U. K. 23,429/03. Gas fired steam generator furnaces with air and gas mixing and distributing chambers. 2.

302. Youlten, W.—3 Sept. 1904; U K. 2295/03. Ginning and burring apparatus with shaking sieve, air jets; and special construction of combs and of rollers from card clothing. 3.

303. Crook, A. E.—8 Feb. 1905; U. K. 1395/04. Convertible valise and tent. 1.

304. Goode, G. W., Mitchell, H. L., & Oakley, G. C.—8 Feb. 1905; U. K. 21,316/03. Binder for briquetting small coal, ore, sawdust, etc., consisting of glucose, dextrine, tapioca, resin, and oil.

305. Welch, R W.—25 Feb. 1905. Rice, etc., polishing machine with a spring toothed vertical drum revolving inside a screen. 1.

306. Keller, C. A.—19 Aug. 1904; U. K. 3790/01. Electric furnace with multiple hearth. 1.

307. Stephens, W. C.—19 Aug. 1901; U K. 12,626/04. Rock drill chuck or holder for percussive drills 1.

308. Casewitz, H—19 Aug. 1904, U. K. 19,553/03. Printing telegraph transmitting and receiving apparatus. 1.

309. Norton, H. B., & Tinson, J.—17 Sept. 1904. Flushing cisterns for water closets, etc. 1

310. Hill, A. R., & Stephens, E.—26 April 1905. Railway, etc., vehicles, combined buffer and draw gear with automatic coupling. 2.

311. Cammiade, G H—Skins are " pickled " with alcohol.

312. Goculdas, N. M., & Irani, K. S.—29 Oct. 1904; U. K. 28,477/02. Road vehicles, alarm bells are operated by friction gear from the wheels. 3.

313. Scott, E. A—Railway signalling electric staff or tablet instruments. 2.

314. Maxim, H. S—7 Sept. 1904; U. K. 3120/04. Roundabouts with cars to resemble flying machines. 1.

315. Whitehouse, J.—8 Feb. 1905; U. K. 20,149/03. Spark arrestors for locomotive and other chimneys with side ports into ash chamber, baffles and spray. 2.

316. Pierce, R. H., & Westropp, G. D.—Railway crossing with pivoted rail worked from the points. 1.

317. Lorentz, L. D., Buchanan, J. C., & Travis, A. O.—20 Sept. 1904; U. K. 14,234/04. Tobacco machine for removing stem from the leaf. 12.

318. **Roberts, T.**—Railway signalling electric key staff instrument.

319. Jostt, C.—19 Sept. 1904. Heat engine adapted for driving a fan. 2.

320. **Settle, T., & Padfield,** W. A.—20 Feb. 1905; U. K. 12,552/02. **Coal gas is made in vertical** retorts charged at intervals from a sealed measuring hopper. The lower end of the retort is curved to discharge coke **laterally.** 1.

321. Electric and Train Lighting Syndicate.—8 Feb. 1905. Bevel gearing with casing and means for lubricating, specially adapted for driving dynamos on railway vehicles. 3.

322. Kotyra, M.—15 Nov. 1904; U. K. 15,065/03. Telegraphs, key-board transmitter for dot and dash telegraphy with separate key for each letter. 1.

323. Laird, G., & Todd, J. P.—28 Feb. 1905; U. K. 3000/04. Electric controlling apparatus for electromotors, operated by excess current or fall in voltage. 1.

324. Roy, C. M.—Bricks specially arranged in kilns for burning. 6.

325. Bonsall, S. W.—6 Jan. 1905. Clothes hanger consisting of bars and hooks. 1.

326. Roberts, H. & A., & Entwistle, R.—9 Sept. 1904; U. K. 19,308/03. Cotton gin rollers are made of card clothing filled in with composition. 1.

327. Baker, A. G.—11 March 1905. Shot is made from sheet lead by cutting into strips and then into cubes which are rolled into spherical form. The cutting is done by revolving knives and shears. Rolling is performed between fixed and revolving concentric cones. 3.

328. Cooper, J. E.—25 Feb. 1905; U. K. 17,935/02. Bearings and mountings for axles of railway and other vehicles. 2.

329. Baker, C. W.—25 Feb. 1905; U. K. 15,236/04. Railway with single rail between narrow-paved strips. Locomotives and vehicles with central flanged wheels and plain outside wheels. Horizontal driving wheels grip the rail. 4.

330. Jackson, W.—12 April 1905; U. K. 14,731/04. Drying tea etc. Travelling scrapers, brushes, etc., remove the fine material from the floor of apparatus in which travelling trays are used. 1.

331. Pielock, E—8 Sept. 1904. Steam generators of the tubular or locomotive type with steam superheater. 2.

332. Rusher, C. J., & Baudinet, G. W.—21 Sept. 1904; U. K. 7490/04. Explosives containing nitro compounds, etc., impregnated with ammonia by addition of ammonium carbonate, etc.

333. Plummer, E. T.—20 Feb. 1905 Paving blocks of specified forms are laid on a foundation which is shaped to conform with their undersides. 1.

334. Moore, M., & Hoskett, T. J.—28 March 1905; U. K 5041/04. Iron and steel made direct from the ore in various combinations of special forms of gas-fired vertical stepped shaft and inclined revolving furnaces for reduction, and a movable finishing hearth. 5.

335. Duncan, G. S.—1 Oct. 1904. Vacuum filters with movable frames and tanks to treat gold and silver slimes. 3.

336. Stoffier, E.—4 Jan. 1905; U. K. 11,523/04. Bricks of sand and lime are hardened with the aid of steam.

337. Price, F. G.—Laying out angles for engineering and building.

338. Saintyves, J. M.—Brackets for curtain rods. 1.

339. Shah, M. K.—29 Oct. 1904. Lamp wicks made of asbestos.

340. Maniachi, A. V.—11 March 1905. Stove for heating flat irons. 1.

341. Bhisey, A. A.—14 March 1905. Guards for doors and windows to prevent accidents in railway vehicles, houses, etc., consisting of movable strips or shutters. 1.

342. Craig, W. J., & Hart, F. W.—1 April 1905. Railway chair key of wood in two parts. 1.

343. Bapayya, P.—2 Oct. 1905. Rice hulling machine with horizontal stones and with fan and sieve for cleaning. 1.

344. Guess, E.—24 Jan. 1905; U. K. 14,062/03. Cash checking machine with electrically operated indicators and totalling apparatus. 8.

345. Mitchell, T.—18 March 1905. Flushing or measuring valve apparatus for flushing closets or latrines, measuring oil, etc. 4.

346. Harrington, B. R.—Refuse destructor furnace as in 172/00 with opening in back. 2.

347. Madhavji, B.—Water lift of the chain pump type. 1.

348. Nesfield, V. B., & Crerar, A.—3 Nov. 1904; U. K. 4759/03. Water and other liquids and food are sterilised by chlorine in a free or combined state.

349. Venesta, Ld.—28 Sept. 1904; U. K. 15,623/04. Dished lid to be expanded in the opening for closing wooden boxes, etc. 1.

350. Crawford, A. A.—4 Nov. 1904. Glass fitting for electric lamps on railway and tramway vehicles, etc. 1.

351. Stubbs, D. H—29 March 1905. Punkahs suspended so that one-third of the weight or area is above the point of suspension. 1.

352. Peters, G A.—June 1905. Targets made in sections, each with electric connections to indicators. Refers to 180/04. 2.

353. Toisoul, A, Pradet, E. A, & Piedefert, L.—28 March 1905; U. K. 21,880/03. Gas fired crematorium furnace. 2.

354. Murdoch, J. S.—10 May 1905. Cotton picking or harvesting; hand appliance for use in the field consists of a pistol-shaped tool with a revolving toothed picker head worked from the trigger by gearing. 1.

355. Ghose, B. L.—19 June 1905. Ball valve for tans, etc. 1.

356. Halle, C. R. S J.—29 Sept. 1904; U. K 17,797/03. Spring wheels for vehicles with springs acting at right angles to the plane of the wheels and auxiliary springs in the plane. 7.

357. Taylor, E. Z.—29 Sept. 1904. Labels are made from a roll of paper by an attachment to the printing machine which cuts the paper longitudinally and transversely. 6.

358. Hart, J. A.—12 April 1905; U. K. 17,755/03. Air is filtered, warmed, cooled or moistened for ventilation by passing it over permeable material arranged in a casing and kept moist. 3.

359. Jackson, W.—12 April 1905; U. K. 15,136/04. Heating air supply for combustion, specially in oil-fired furnaces of tea-drying machines, by pipes placed over the crown or amongst the air pipes. 2.

360. Loison, J. B.—11th March 1905; U. K. 24,105/03. Centrifugal separator for dry material such as gold ores. The material is thrown to distances depending on its weight by a grooved distributor plate driven by an electromotor. 1.

361. Bristow, A. H.—2 Feb. 1905. Fire bars specially applicable for locomotive furnaces. Refers to 447/03. 1.

362. Jordan, A. E.—8 May 1905. Evaporating concentrating or distilling apparatus of tubular type with externally fired tubes, specially for salt and sugar. 1.

363. Allibhoy Vallijee & Sons.—Tin despatch box with partition, etc., and clips for papers. 1.

364. Gadd, W.—12 Oct. 1904; U. K. 14,335/03. Slotted link valve gear for locomotives and other steam engines. 3.

365. Eisenbeis, F., & Garelly, F.—6 Jan. 1905; U. K. 19,279/03. Mining; toothed crown cutter for coal cutting, channelling, etc. 1.

366. Marshall, D., & Carr, J. F.—11 March 1905; U. K. 3407/03. Locking nuts by coil of wire of egg-shaped section placed between nut and bolt. 2.

367. Palkhiwala, R. D.—25 Nov. 1904. Road vehicle shaft with adjustments for height 3

368. Dutton, S. T.—Railway signal lever gear with interlocking, controlling, disengaging, and indicating arrangements. 4.

369. Lacey, A.—29 Nov 1904. Water-closet flush worked from seat or foot rest. 1.

370. Perry, H. W.—12 Dec. 1904. Railway rails with renewable wearing cap. 1.

371. Nandi, S. C.—12 May 1905. Spirit level with screw adjustment for tube. 1.

372. Staines, F.—28 March 1905; U. K. 15,196/04. Rack or tray for draining plates and similar domestic purposes. 1.

373. Albrecht, F.—11 March 1905. Coupling for pipes or cocks to mains, tanks, etc. 2.

374. Soc. dite Peignages et filatures de bourre de soie.—28 March 1905, U. K. 16,308/04. Spinning; arrangement of guides for leading thread to spindle. 1.

375. Howden, J., & Haskin, S. E—25 Oct. 1904; U. K. 16,972/04. Tea, coffee, etc., withered and dried by air under pressure in withering chambers and drying stoves. Means for supplying heated and cold air, for drawing off the air, and the construction of the chambers, etc., are described. 2.

376. McDermott, J. H—Railway wooden sleepers are bored to gauge with the aid of an adjustable auger holder. 2.

377. Mohamed Abdul Kuddus.—15 Nov. 1904. Mica tumblers and drinking vessels. 1.

378. Manly, R. A.—23 May 1905. Railway wagon doors are locked by lever gear operated when the vehicles are coupled. 1.

379. Schnarre, A. W. K.—22 May 1905. Runaway horses are stopped by a loop in the harness placed above the knees. 1.

380. Limaye, Janardan Shankar.—Winding machine with skeleton wooden drum and thread guide. 1.

381. Rutnagur, S. M.—Water waste prevented in which valve is closed by tilting container into which sand or shot flows. Refers to 455/01 and 124/03. 1.

382. Hunt, L. J., & Sandycroft Foundry Co.—25 Feb. 1905; U. K. 19,948/03. Electromotors of synchronous alternating current induction type with means for varying the resistance of the rotor circuits. 2.

383. Darwin, A. H., & Sharp, H.—28 March 1905; U. K. 24,281/03. Railway vehicle couplings for use with the Jones type of buffer. 1.

384. Colquhoun, J. A.—6 Jan. 1905; U. K. 16,021/04. Railway chair keys and pads. 6.

385. Timmis, I. A.—11 April 1905. Railway vehicles, bogie arrangements for. 4.

386. Cantwell, E. L.—Railway points and signals worked by hydraulic transmission. 2.

387. Baudry, J. Cement made from granulated blast furnace slag by grinding with lime and limestone, briquetting, burning and regrinding.

388. Satin, K. M.—11 April 1905. Railway signals on engine and train worked from stops adjustable on the permanent way. 2.

389. Perry, W. F. S.—20 June 1905. Punkahs pulled by main and branch lines of ropes with detachable connections. 6.

390. Price, F G.—4 Sept. 1905 Flexible washers of cup shape for waterproofing bolt holes in corrugated roofing. 1.

391. Schrœder, F. W.—3 Nov. 1904; U. K. 27,197/03. Bottle stoppers or corks with bail fastening. 1.

392. Schrœder, F W.—3 Nov 1904; U. K. 3119/04. Bottling and corking machine for aerated beverages in which a pivoted hood or bail fastening for the cork is applied. 1.

393. Ferranti, S. Z. de.—28 March 1905; U. K. 18,047/03. Spinning, doubling and twisting machines with twisting arrangements at delivery. Spindle with turbine drive and other details to increase speed and regularity. 5.

394. Gresham, J. & H E., & Kiernan, G—19 May 1905; U. K. 20,304/03. Railway vehicles; ejector for automatic vacuum brakes and valves for controlling it in connection with the brakes. 2.

395. Gresham, J & H. E., Kiernan, G.—19 May 1905; U. K. 26,506/03. Railway vehicles; arrangements for applying automatic vacuum brakes with full effect initially and then with reduced power as the train slows down. 3.

396. Weinrich, M.—19 May 1905; U. K. 4381/04. Bone-black and other finely divided material dried, revivified and decarbonised in revolving horizontal drum furnace. 4.

397. Olsen, O. M. J., & Gates, W.—28 March 1905. Gas lighting; regulator and pilot light for incandescent gas-burners. 2.

398. D'Souza, M.—29 March 1905. Railway vehicles; tumbler lock for wagon doors 1.

399 Sisson, S. A.—28 March 1905; U. K. 21,600/03. Billiards; elastic pads are placed under the spots and at other points where wear may occur. 1.

400. Ginwalla, J. N.—Cotton gin rollers made of palm tree fibre net. 1.

401. Gulab Singh.—Water list with segmental toothed wheels for reversing. 1

402. Rogers, A. B. C.—Heat insulation coverings consisting of one or more layers of linseed oil and mica.

403. Hathaway, H. G.—Saddle attachment for supporting sick or wounded persons. 1.

404. Ferranti, S. Z. de.—10 May 1905; U. K. 13,199/03. Turbines; arrangements for superheating the working fluid internally by gaseous, liquid or solid fuel, and for utilizing the heat in the exhaust. 5.

405. Beck, H.—Electric arc lamps.

406. Woltereck, H. C.—23 May 1905; U. K. 16,504/04. Ammonia is made by passing air and steam over heated peat.

407. Sullivan, A. W., & Renshaw, W.—29 Nov. 1904; U. K. 18,265/04. Railway postal and other carriages with metal bodies and underframes. 7.

408. Perry, H. W.—16 May 1905. Railway and tramway rails with large foot to dispense with sleepers. 1.

409. Satin, K. M.—10 May 1905. Railway and tramway signals for overhead electric lines; trolly arm completes a semaphore and bell circuit. 2.

410. Thanewala, M. K.—27 March 1905. Ruler with fixed and sliding collars to obviate inking the paper. 1.

411. Nichols, B. F.—28 Nov. 1904; U. K. 17,430/03. Spinning: drawing rollers are covered with a composition containing oil, resin, cork and vegetable black.

412. Carlson, S.—10 May 1905. Lamps; petroleum burner for inverted flame. 1.

413. Utility Cotton Picker Co.—10 May 1905. Cotton picking or harvesting machine having a number of revolving picker heads with eccentric fingers movable in and out of a collecting casing. 3.

414. Bohm, H.—25 Nov. 1904; U. K. 16,822/04. Cans for food provided with separate compartments for holding line and water or other chemicals which react and produce heat. 5.

415. Fiddes, J., & Watt, J. F.—26 Nov. 1904; U. K. 2772/04. Fire extinction; automatic spinklers are connected to normally empty pipes which fill when the sprinklers are required. 2.

416. Gell, J.—11 May 1905; U. K. 12,462/03. Tape perforating machine with type-writer key-board for tape used in Wheatstone automatic telegraph instruments and for other purposes. 3.

417. Banwari Lall.—7 Feb. 1905. Sugarcane mill with vertical geared rollers, one driven by a worm. 1.

418. Dhur, J. L.—6 July 1905. Looms, picking motion for. 1.

419. Connor, J. L.—Painting and shaving brush.

420. Sayer, R. C.—29 Nov. 1904; U. K. 12,729/04. Electric railway systems. 6.

421. Starrett Cotton Gin Co.—6 Jan. 1905. Cotton ginning machine with fan to draw air between roller and stripper. 1.

422. Nootbaar, E.—28 Nov. 1904; U. K. 17,559/04. Umbrella holder attachment for use on seats vehicles, etc. 1.

423. Gantzer, F.—Removable cover with packets for books, papers, etc.

424. Pierce, R. H., & Westropp, G. D.—10 April 1905. Railway crossings with pivoted crossing rail worked from points. 2.

425. Livesay, C. E.—U. K. 22,726/03. In docks and other hydraulic works fitted with sliding gates to exclude silt, surface water is urged through the water way by paddle wheels. 3.

426. Crawford, A. A.—5 Dec. 1904. Electric coupling for railway vehicles, storage, batteries, etc. 1.

427. Clarkson, A.—7 Jan. 1905; U. K. 21,284/04. Spray producer or humidifier. 2.

428. Westinghouse Brake Co. & Cloud, J. W.—24 Jan. 1905; U. K. 27,349/03. Railway vacuum brake with supplementary valve for preventing leakage into reservoir chamber when brakes are on. 1.

429. Ebrahim & Ali Shaik Bidree.—31 March 1905. Warping machine with skeleton drum, driving gear, and reciprocating thread guide. 1.

430. Hodgson, C., & Dutton, F. H.—29 Nov. 1904; U. K. 24,604/03. Railway point working and locking apparatus arranged to allow vehicles to trail through without strain. 1.

431. Price, F. G.—Flexible cup washer or bolt head for corrugated roofing. 1.

432. Proctor, W. H.—10 May 1905. Lubricator for axles, slides, etc., consisting of revolving roller dipping in oil. 2.

433. Blechynden, A. C.—Fibre decorticating machine with beaters, strikers and scrapers. 1.

434. Swyny, E. J., & Plucknett, S. G.—29 Nov. 1904: U. K. 19,140/04. Ore separating and classifying apparatus of modified upward current type. 1.

435. Swyny, E. J., & Plucknett, S. G.—29 Nov. 1904; U. K. 19,141/04. Ore separating and classifying apparatus of shaking trough type. 1.

436. Swyny, E. J., & Plucknett, S. G.—29 Nov. 1904; U. K. 19,142/04. Ore separating and classifying apparatus with shutting screws, etc., combined with apparatus described in Nos. 434 and 435 of 1904. 1.

437. Smethurst, E.—13 Jan. 1905; U. K. 8997/04. Ships with screw propulsion; speed controlled by operating a pair of rudders, co-axially mounted behind the propeller. 2.

438. Venesta, Ld.—8 Dec. 1904; U. K. 17,817/04. Lead and parchment paper linings for collapsible and other boxes for tea, etc. 1.

439. Mahla Bros.—Bangles of striated glass tube with metal joint. 1.

440. Mohamed Abdul Kuddus.—19 Dec. 1904. Collapsible or folding lamps or lanterns for oil candle, etc., with mica sides and chimney. 1.

441. MacBean, D. W.—28 Feb. 1905. Road vehicles as in 75/04 provided with roller bearings and clips for the seat springs. 1.

442. Standard Mouth Piece Machine Co.—7 Jan. 1905; U. K. 17,445/04. Mouthpieces for cigars and cigarettes made by winding a strip of flexible material with the aid of special machinery. 6.

443. Burton, A.—12 May 1905; U. K. 26,201/03. Tent pole with central screw adjustment for height. 1.

144. Abdoolpurkar, N. A., & Togi, M. M.—27 March 1905. Warping machine of drum type with foot operated, reciprocating thread guide. 3.

145. Dissent, A. M.—6 Sept. 1905. Incandescent oil lamp and burner. 1.

146. Young, E. H.—Railway signal wire compensator. 1.

147. Ceccarini, F.—11 Feb. 1905. Card maker for the game of bridge. 1.

148. Whitehouse. S. G.—8 April 1905; U. K. 6816/04. Road vehicles, movable shield or roof for hansom-cabs, victorias and like. 1.

149. Sheehan, F. A.—25 Aug. 1905. Pakhal or water carrier with corrugated sides, inlet and outlet fittings, and saddle attachments. 1.

150. Vickers, W. C.—31 May 1905. Latrines with means for separately receiving solid and liquid matters. 1.

151. Connor, J. L.—Automatic coupling arm.

52. Kehr, P.—17 Jan. 1905. Aerating and bottling machine with trunnioned mixing chamber and special pump arrangements. 1.

153. Scott, J.—22 Feb. 1905. White lead made from litharge, and other materials mixed, in a revolving egg-shaped chamber which is constructed in two parts with lining, screw stopper, and inlet in one trunnion. 1.

154. Marconi's Wireless Telegraph Co.—19 May 1905; U. K. 25,382/03. Telegraph transmitters operated by perforated tape. 1.

55. Marconi's Wireless Telegraph Co.—19 May 1905; U. K. 25,383/03. Telegraph transmitters for wireless telegraphy. 1.

56. Burnley Automatic Loom, Ld.—12 May 1905; U. K. 23,317/03. Looms of automatic weft replenishing type as in 482/03, with improvements for ensuring action and adapting motion to underpick looms. 2.

157. Starrett, D. W.—29 May 1905; U. K. 17,583/03. Water lift of the air lift type. 2.

58. Meyer, R., & Perrin, J.—26 May 1905; U. K. 19,599/04. Spinning; combing machines for wool, silk, cotton, etc., especially of the Heilmann class with special arrangements of one large and several small cylinders and their driving gear. 4.

159. Sonnenthal, G., & Elsner, J.—7 Jan. 1905; U. K. 13,151/04. Lift for heavy loads with means for displacing them laterally on the platform. 1.

60. Sinclair, G.—14 Nov. 1905; U. K. 4622/04. Smoke consuming apparatus for steam boiler and other furnaces; air, admitted through adjustable inlets, is directed by flanged arches above the fire. 4.

61. Dawes, J. T.—29 May 1905; U. K. 27,298/03. Magnetic separators for ores, etc. 3.

62. Mellett, L.—26 May 1905. Spinning; travellers for spinning rings are made with air-resisting surfaces on their outer sides. 1.

63. Looms, G.—6 Dec. 1904; U. K. 12,307/03. Protectors and pads for soles and heels of boots and shoes. 1.

64. Declozets, L. P.—Fuel briquettes made from paddy husk and similar waste with specified binding agents.

165. Madhowjee, L.—25 Sept. 1905. Rice hulling and cleaning machine; distributing plate and screen added to the Engleberg machine. 1.

466. **Patterson, A.—13 March 1905. Sight feed lubricator for locomotives with steam-supply controlled from starting regulator. 3.**

467. Josephs, H. F.—Beam scale with indicator below. 1.

468. Freeman Hines, Ld.—8 Dec. 1904; U. K. 23,273/02. Pipe joints of spigot and socket or clip and sleeve types with cams for tightening. 1.

469. Gridley, H. J.—8 Dec. 1904; U. K. 23,844/03. Starting gates for racing purpose with electric release gear. 3.

470. Scaefer, E.—29 March 1905. Fire extincteur with special arrangements for holding and opening the acid bottle. 2.

471. Chemisch Technische Fabrik, Dr. Alb. R. W. Brand Co.—7 Jan. 1905. Stone coloured by the application of metallic oleates dissolved in essential oils to which organic acids are added.

472. Auerbach, C.—3 June 1905; U. K. 11,313/03. Drill for angular holes. 2.

473. James, F. R.—14 Dec. 1904; U. K. 17,815/04. Folding bedstead. 2.

474 Sherman, B.—14 Dec. 1904. Electric battery of Leclanche type made up in dry form and excited by addition of water. 1.

475. De Bingham, T. M., & Wood, P. A E.—3 Jan. 1905; U. K. 19,754/02. Tyres of the combined solid and pneumatic type. 1.

476. Johnstone, A. E —23 Dec. 1904; U. K. 20,152/02. Oil fired furnaces, liquid fuel fittings for. 1.

477. Cullen, O. C.—25 Feb. 1905; U. K. 13,960/04. Ordnance and other fire arms are provided with ball bearings in the grooves of the rifling. 1.

478. Peters, G A.—Measuring velocity of projectiles.

479. Peters, G. A.—Targets with electric indicators. 2.

480 King, E.—17 May 1905. On railway trains the alarm signals for use of passengers are constructed to apply the vacuum brakes and to sound a whistle. 2.

481. Jussawalla, K. S.—Drains, buildings, etc., are ventilated with the aid of wind cowls. 1.

482. Crawford A. A.—Dynamos on railway vehicles for lighting, ventilating, etc., driven by two belts from the axles. 1.

483. Crawford, A. A —Belt guard or protector for dynamos used on railway vehicles for lighting and ventilating. 1.

484. American Warp Drawing Machine Co.—25 March 1905; U. K. 4661/04. Looms with special arrangements for drawing warp threads into loom heddles and reeds. 9.

485. Jackson, W.—19 June 1905; U. K. 20,472/04. Tea-rolling machine with oval or like chamber of which the upper part is stationary and the lower part is formed by an endless belt of staves driven by a rack. Refers to 367/02. 2.

486. Hall, J. W.—16 June 1905. Carburettors for internal combustion engines with controlling device for operating fuel supply valve independently of the induction strokes. Refers to 152/04. 3.

487. Pollard, E. T., & Behrmann, E. L.—26 May 1905; U. K. 17,966/02. Packing measured quantities of tea and other materials; continuous web of paper printed, cut into lengths and formed into bags which are then filled with an automatically weighed quantity of material, closed and secured. 8.

488. Pollard, E. T., & Behrmann, E. L.—26 May 1905; U. K. 19,271/02. Packing cigars, cigarettes and other articles; web of paper or cardboard printed, scored and cut for folding, and then shaped into a box or wrapper, of which the parts are secured by pasting. The box is then filled and closed. 6.

489. Voltage Controller Co.—6 June 1905; U. K. 22,326/04. Electric controllers for electromotors. 7.

490. Johnston, W. J.—6 June 1905; U. K. 21,527/04. Photographic camera for taking panoramic views. 4.

491. Carter, J., Hall, G., & Parsons, A.—6 June 1905; U. K. 4918/04. Safety cut-out for broken trolley wires on electric tramways, etc. 2.

492. Roudebush, F. L.—U. K. 17,414/04. Rock drills of pneumatic type with automatic feed and means for clearing the cuttings. 4.

493. Stein, A.—June 1905. Molasses and other saccharine liquids mixed with peat and the mixture dried; other substances, which may be of nutritive character, may be added. The product is used as food for animals or as raw material for alcohol manufacture. 1.

494. Liebold, R.—2 June 1905; U. K. 4606/04. Cement; stearine, potash and colophony are added to Portland cement.

495. Paley, G.—2 June 1905; U. K. 908/03. Spinning, etc., rings provided with means for automatically retarding the speed of the traveller to suit the tension of the thread. 1.

496. Quarme, E. A.—2 June 1905. Tea is dried and its aroma preserved by circulating air continuously through the drying oven and a condenser to remove water. Fumes from burning carbon are introduced. 1.

497. Dieselhorst, W., & Martin, A. W.—4 Jan. 1905; U. K. 12,526/03. Electric cables made to prevent induction interference by successively twisting together only two individual members and varying the length of lay at each twisting operation. 1.

498. Heyes, J. T.—U. K. 28,122/03. Spinning; spindle apparatus with means for lubricating the traveller ring. 1.

499. Lamp Mfg. Co.—23 Dec. 1904; U. K. 25,384/03. Gas lamps of the regenerative type. 1.

500. Hoyd, H.—7 April 1905. Explosives containing sodium nitrate, resin, napthalene, petroleum, sulphur, etc.; the sodium nitrate is rendered dampproof by some of these bodies.

501. Hodson, J.—4 Jan. 1905; U. K. 11,469/04. Folding camp bedsteads and other furniture and hinge joints for them. 2.

502. Deakin, W. H.—2 March 1905; U. K. 14,723/04. Railway point rod roller standards are supported on a glazed stoneware base. 1.

503. Kennedy, W.—4 Jan. 1905; U. K. 27,094/03. Metal tubes or rods are bent round an annular block which is fitted to clamp the tube and to act as a centre for the bending lever. 1.

504. Lamp Mfg. Co.—4 Jan. 1905; U. K. 13,085/04. Oil lamps for railway signals, etc., with auxiliary oil reservoir and wick, and special arrangements of burner, air supply holes and lenses. 1.

466. **Patterson, A.**—13 March 1905. Sight feed lubricator for locomotives with steam-supply controlled from starting regulator. 3.

467. Josephs, H. F.—Beam scale with indicator below. 1.

468. Freeman Hines, Ld.—8 Dec. 1904; U. K. 23,273/02. Pipe joints of spigot and socket or clip and sleeve types with cams for tightening. 1.

469. Gridley, H. J.—8 Dec. 1904; U. K. 23,844/03. Starting gates for racing purpose with electric release gear. 3.

470. Scaefer, E.—29 March 1905. Fire extincteur with special arrangements for holding and opening the acid bottle. 2.

471. Chemisch Technische Fabrik, Dr. Alb. R. W. Brand Co.—7 Jan. 1905. Stone coloured by the application of metallic oleates dissolved in essential oils to which organic acids are added.

472. Auerbach, C.—3 June 1905; U. K. 11,313/03. Drill for angular holes. 2.

473. James, F. R.—14 Dec. 1904; U. K. 17,815/04. Folding bedstead. 2.

474 Sherman, B.—14 Dec. 1904. Electric battery of Leclanche type made up in dry form and excited by addition of water. 1.

475. De Bingham, T. M., & Wood, P. A E.—3 Jan. 1905; U. K. 19,754/02. Tyres of the combined solid and pneumatic type. 1.

476. Johnstone, A. E—23 Dec. 1904; U. K. 20,152/02. Oil fired furnaces, liquid fuel fittings for. 1.

477. Cullen, O. C.—25 Feb. 1905; U. K. 13.960/04. Ordnance and other fire arms are provided with ball bearings in the grooves of the rifling. 1.

478. Peters, G A.—Measuring velocity of projectiles.

479. Peters, G. A.—Targets with electric indicators. 2.

480 King, E.—17 May 1905. On railway trains the alarm signals for use of passengers are constructed to apply the vacuum brakes and to sound a whistle. 2.

481. Jussawalla, K. S.—Drains, buildings, etc., are ventilated with the aid of wind cowls. 1.

482. Crawford A. A.—Dynamos on railway vehicles for lighting, ventilating, etc., driven by two belts from the axles. 1.

483. Crawford, A. A—Belt guard or protector for dynamos used on railway vehicles for lighting and ventilating. 1.

484. American Warp Drawing Machine Co.—25 March 1905; U. K. 4661/04. Looms with special arrangements for drawing warp threads into loom heddles and reeds. 9.

485. Jackson, W.—19 June 1905; U. K. 20,472/04. Tea-rolling machine with oval or like chamber of which the upper part is stationary and the lower part is formed by an endless belt of staves driven by a rack. Refers to 367/02. 2.

486. Hall, J. W.—16 June 1905. Carburettors for internal combustion engines with controlling device for operating fuel supply valve independently of the induction strokes. Refers to 152/04. 3.

524. **Flynn, F. J. P. & P.—6 Feb. 1906; U. K. 19,641/03. Cooling attachment or removable receptacle screwed to drinking vessels, etc. 1.**

525. Walke, C.—11 Aug. 1905. Oil mills of pestle and mortar type with driven pestle. 1.

526. Pulman, T. C.—Water lift.

527. Badische Anilin & Soda Fabrik.—17 July 1905; U. K. 3108/04. Indigo paste used for dyeing in the fermentation vat; caustic lime or other alkaline reacting substance is added as a preservative.

528. Craufurd Lindsay, W. P. C.—Lead seal holder for railway wagon labels. 1.

529. Goss, M. T.—23 May 1905; U. K. 20,693/04. Water tube boilers with means for injecting jets of high pressure steam to obviate and remove sediment. 1.

530. Morris, R. T.—Tippler for coal, etc.

531. Gahagan, R. H.—25 July 1905. Water tanks and cisterns constructed of plates with flanges or angles for bolting together. 2.

532. Patel, V. W.—Cotton gin rollers built up of paper pulp, cotton coir or other fire with chemical salt and metallic wires incorporated. 1.

533. Mirza, A. T.—6 May 1905. Automatic sluice gates on trunnions constructed so that the point of suspension varies as the gate moves. 2.

534. Central Cyclone Co.—17 Feb. 1905; U. K. 9016/04. Furnace; appliances for feeding powdered fuel. 1.

535. Cummins, A. E.—30 June 1905; U. K. 4367/04. Baling press for cotton, etc., with horizontal filling chamber and single hydraulic ram for first pressure, a transfer chamber at one end and finishing ram. 6.

536. Watson, H. G., & Cumnock, J.—7 July 1905; U. K. 26,815/02. Aërating liquids; construction and working of mixing chamber and pumps. 3.

537. Holden, J., & Tiddeman, E. S.—28 July 1905; U. K. 6642/04. Spark arresters for locomotives, etc., with deflecting baffles and catch plates in smoke box. 3.

538. Abdul Haji Ali.—Water lift.

539. Müller, C. H. A.—Module.

540. Window Glass Machine Co.—8 Feb. 1905; U. K. 22,065/04. Glass sheets are drawn, several at a time, from a body of molten glass and are annealed in the drawing and annealing chambers. 7.

541. Little, J. R.—10 March 1905; U. K. 27,241/04. Hollow concrete blocks, etc., for fireproof floor and roof construction; passages in the blocks may convey water to sprinklers for fire extinction. 1.

542. Lundholm, C. O.—7 July 1905; U. K. 19,438/03. Explosive of the ammonium nitrate type with the addition of nitroglycerine.

543. Atkins, G. J.—28 July 1905; U. K. 11,470/04. Electrolysis; rotating cathode passes through cylindrical anode of carbon containing the electrolyte. 1.

544. Clark, A. Z.—28 July 1905. Ores and the like treated for recovery of metals and gems in apparatus consisting of a circular tank with deflectors and a revolving screw agitator. 2.

545. Peters, N. O., & Sukul, M.—13 Sept. 1905. **Portable latrine seat with means for separating solid and liquid matters.** 1.

546. Kutbuddin, H.—2 Sept. 1905. **Oil mill with revolving mortar.** 5.

547. Jadhav, K. B.—6 April 1905. Match splints are made of **grass, dried and dipped in paraffin and shellac varnish.**

548. Dupont, V.—**Maze and optical illusion with mirrors.** 3.

549. Hulburd, P.—U. K. 22,334/04. **Lubricator with weighted piston for grease, etc.** 1.

550. Larkin, W. F.—30 June 1905. **Catamenial appliance.** 1.

551. Norwood, J.—25 March 1905; U. K. 23,588/04. **Music portfolio with retaining strings for sheets.** 3.

552. Sears, F. W.—27 May 1905; U. K. 10,855/04. **Half-tone engravings for lithography and other printing produced with the aid of half-tone positive photographed through screen from a negative.** This positive or a contact negative from it is printed on the plate.

GOVERNMENT OF INDIA
THE PATENT OFFICE

INVENTIONS

SUBJECT-MATTER INDEX

1900–1911

CHRONOLOGICAL LIST

1905–1911

CALCUTTA
SUPERINTENDENT GOVERNMENT PRINTING, INDIA
1915

(Price Three Rupees.)

EXPLANATORY NOTES.

THIS volume contains a subject-matter index of inventions and a chronological list of all applications on which an exclusive privilege was applied for in the years 1905 to 1911 inclusive.

The annual indexes of the Patent Office for those years are now out of print so that the present volume consolidates much of the informations given in them and supplements the previously consolidated chronological list of applications from 1900 to 1904. (Price Rs. 2.)

All these applications were made under the Inventions and Designs Act, 1888, which was replaced on 1st January 1912, by the Indian Patents and Designs Act, 1911. Particulars of applications under the present Act are to be found in the annual and quarterly volumes of the "Patent Office Journal," and in the notifications which appear weekly in the *Gazette of India*.

The alphabetical index of the subject-matter should be used in conjunction with the chronological lists for the purpose of finding an outline of the contents of any particular application. In the subject-matter index, related inventions are included as far as possible under particular headings, to which the searcher is guided by references. The "see also" references are intended to direct attention to headings where matters of interest, closely allied to but not entirely cognate, may be found, *e.g.*, the reference from Acetylene to Lamps.

The chronological list is intended for reference when the number and year of any particular application has been found with the aid of the subject-matter index. For each application is given the number; names of the applicants; date of the filing of the specification, if any, from which date the exclusive privilege accrues; number of the corresponding specification in the United Kingdom, when it has been stated in the application; a short statement of the nature of the invention; and a number indicating the number of sheets of drawing attached to the specification. When [redacted] there is no specification an exclusive privilege was not obtained, and details of the invention are not available as a rule.

For further information concerning the invention, the specification itself must be consulted. For the purpose of reference the number of the entry and the year at the head of the page should be quoted, together with the applicant's name. Under certain restrictions the original specification may be seen on payment of a fee of one rupee at the Patent Office, 1, Council House Street, Calcutta. Printed copies of these specifications are not available but typed copies of the specification and tracings of the drawings can be supplied by arrangement. Duplicate copies of these specifications may also be inspected at the Record Office, Egmore, Madras; the Record Office, Bombay; the Office of the Director of Industries, Cawnpore; and the Office of the Revenue Secretary to the Government of Burma in Rangoon.

Frequently, however, the details of the invention may be found from the corresponding specification in the United Kingdom, or from the abridgment thereof contained in the "Illustrated Official Journal" published by the British Patent Office. But it must be remembered that the scope of the claims may vary somewhat in the two specifications. Moreover, the fact that a corresponding application has been made in Great Britain does not imply that those sources of information are accessible, seeing that such application may not have been pursued to the point of publication, owing to insufficient lapse of time, abandonment, or other cause. The publications of the United Kingdom Patent Office can be seen at the Patents Office, Calcutta, at the Government Secretariat library, Madras, and at the Record Office, Bombay.

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THE PATENT OFFICE, 1, COUNCIL HOUSE STREET, CALCUTTA.

Public room, open 11 a.m. to 4 p.m.; Saturdays, 11 a.m. to 1 p.m.

1. *All communications* relating to applications for patents and for registration of designs under the Indian Patents and Designs Act (II of 1911) or in continuation of applications under the Inventions and Designs Act (V of 1888) should be addressed to the Controller of Patents

nd Designs, 1, Council House Street, Calcutta. Documents sent by post should be carefully packed.

2. *Directions* for the guidance of inventors and others are given in the Indian Patents and Designs Act, 1911 price 10 annas), and in the Indian Patents and Designs Rules, 1912 (price 2 annas). These should be consulted before an application is made to the Controller.

3. *Advice.*—The Patent Office cannot undertake (1) to give opinions on the interpretation of Patent Law, or on the advisability of protecting inventions and designs, or on their infringement; (2) to make searches in respect of information available in the public room; (3) to recommend any particular agent; or (4) to assist in the disposal of inventions. Applicants are warned that the Indian Patents and Designs Act, 1911, is in force in British India only, and patents granted under it do not extend to the United Kingdom or any of the British possessions. The International Convention for the Protection of Industrial Property does not include India. For information regarding patents in countries other than India application should be made to the Patent Offices in the countries concerned.

4. *Fees* are payable in *cash* and must be received in the Patent Office within the time allowed by the Acts. When cheques are offered in payment of fees, it must be clearly understood that the office cannot hold itself responsible for any delay that may occur in the collection of cash on the cheques, any cheque not payable in Calcutta is subject to commission. In cases where it is not possible to have the fees handed in at the Patent Office, it is preferable to send them by money order or postal order payable at Calcutta to the Controller of Patents and Designs, and to advise him that they have been so sent. Stamps will not be received in payment of fees.

5. *Trade and property marks and names are not* registered and *medicines* are not patented under the Indian Patents and Designs Act. Neither does this Act deal with *pictures, photographs, etc.*, for which copyright is obtainable under the Indian Copyright Act, 1914. There is no provision of Law in British India for their registration.

6. *Printed Specifications* of applications, which have been accepted, are published within about three weeks after

acceptance has been notified in the *Gazette of India.* These specifications can be purchased at the Patent Office at a uniform price of 8 annas per copy; and may be seen free of charge, together with other publications of the Patent Office, at the following places :—

AHMEDABAD .	R. C. Technical Institute.
ALLAHABAD .	Public Library.
BANGALORE .	Indian Institute of Science.
BOMBAY . .	Record Office.
„ . .	Victoria Jubilee Technical Institute, Byculla.
„ . .	The Bombay Textile and Engineering Association, No. 1A, Sussex Road, Parel.
CALCUTTA .	Patent Office, No. 1, Council House Street.
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„ .	College of Engineering.
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7. *Specifications* of inventions which have been notified in the *Gazette of India* as filed under the provisions of the Inventions and Designs Act (V of 1888) are not printed, but copies may be inspected on payment of a fee of one rupee at the Patent Office, 1, Council House Street, Calcutta; the Record Office, Egmore, Madras; the Record Office, Bombay; the Office of the Revenue Secretary to the Government, Rangoon; and the Office of the Director of Industries, United Provinces, Cawnpore. Specifications and other publications of the United Kingdom Patent Office can also be seen in the Patent Office, Calcutta, and in the Record Offices, Madras and Bombay.

8. *Publications* on sale at the Patent Office :—

		Price.	
		₨	a.
(*a*) The Indian Patents and Designs Act, II of 1911		0	10
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(*c*) The Indian Patents and Designs Rules, •1912		0	2
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(*e*) Inventions (Consolidated subject-matter index, 1900—1908, and Chronological lists, 1900—1904)		2	0
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(*g*) Patent Office Journals, 1911, 1912, 1913 and 1914	each	1	0
(*h*) Specifications of Inventions	each	0	8

H. G. GRAVES,

Controller of Patents and Designs.

1915,

PATENT OFFICE;

CALCUTTA.

1905.

1. Price, A. B.—15 Aug. 1905 Stop or bib cock for flushing water closets with automatic means for closure after a desired quantity is delivered. 1.

2. Armstrong, Whitworth & Co.—11 Aug. 1905; UK. 6111, 12 March 1904. Hydraulic hoist with tilting frames for unloading railway trucks. 1.

3. Champion Seal Co—15 Aug. 1905; UK. 7471, 29 March 1904. Bottle stoppers. A flanged plate and cork disc is pressed into an undercut groove in the bottle neck and is removable by a prising tool. 1.

4. Penrose, H. A.—15 Aug. 1905 Packing or shipping case for bottles consisting of segmental racks collected to form a cylinder. 1.

5 Schmitt, E D—15 Aug. 1905; UK. 26,001, 29 Nov. 1904. Bottle stoppers. A flanged plate and cork disc is pressed into an undercut groove in the bottle neck. 1

6. Goodson Plating Co—11 Aug. 1905 Wire is galvanised or coated with metal by passing it through a tube filled with the molten metal and electrically exciting the surfaces in contact. 1.

7. Moore, G—23 June 1905: UK. 7210, 25 March 1904 Suction filters are lowered into separate tanks for filtering, washing the residue, and cleansing the filter. 1

8 Hafiz, M A.—Canning meat.

9 Achari, T K. A.—2 Oct 1905. Water-lift with counterbalanced tilting buckets and non-reversing bullock gear 1

10. Ciantar, H. C. & I—23 May 1905; UK. 689, 11 Jan 1904. Gold is obtained from sea water with aid of mercury in agitating and settling tanks.

11 Ammonal Explosives, Ld.—18 Feb 1905; UK 3253, 9 Feb. 1904. Explosives consisting of aluminium or other light metal, ammonium nitrate, carbon, and nitrocarbon.

12. Lincoln, P. M—17 Aug 1905. Electrical distribution for single phase alternate current at high voltage and connections for translating devices. 1.

13. Mahomed Abdul Kuddus—6 March 1905. Lamp chimney constructed of a mica cylinder and cones with metal fastenings 1.

14. Finn, G. & Pike, A. S.—5 July 1905 Egg carriers made of metal wire or strips. 1.

15. Mitchell, G.—22 Feb. 1905; UK. 24,430, 11 Nov. 1904. Proteids, alone or mixed with oil, are obtained from the aqueous extract of castor seeds, after their oil has been expressed.

16. Gordon, F. W—11 Aug. 1905; UK 20,474, 23 Sept 1903. Wash-hand basin divided by a partition with spout or emptying plugs in pivoted and fixed forms respectively 1.

17. Verma, S. N. & Jagat Narayan—1 Nov. 1905. Road ramming machine with rising and falling rammers and roller bearings for shafts, etc. 2.

18. Greengrass, C. J—17 Aug. 1905. Cock for delivering definite quantities of water at each turn for preventing waste at stand pipes, etc. 1.

19. Mitchell, G.—22 Feb. 1905; UK. 26,654, 7 Dec. 1904. Proteids are obtained from the aqueous extract of crushed castor seeds before or after the oil has been expressed.

20. Molyneux, E.—Telegraphs and telephone-conductors.

21. Leibbrand, C. H.—Teapot.

22. Simplex Concrete Piling Co.—25 Aug. 1905; UK. 27,198, 13 Dec. 1904. Concrete piles. A hollow pile with a valve at the bottom is first driven and then withdrawn as the concrete is filled in. 3.

23. Fries, J. W.—19 Aug. 1905; UK. 26,084, 30 Nov. 1904. Dyeing and otherwise treating yarn in a machine with flexible wringing rollers and obliquely mounted guide rollers. 2.

24. Barker, J. C.—19 Aug. 1905. Filter with filtering material contained in hemispherical shell which may be fitted to domestic taps. 1.

25. Calico Printers' Association & Warr, W.—19 Aug. 1905; UK. 25,165, 19 Nov. 1904. Mordanting vegetable fibres for printing or dyeing by hydroxide or other insoluble compound of magnesium precipitated in the fibre from a soluble salt.

26. Cyanide Vacuum Filter Co.—7 July 1905; UK. 3962, 17 Feb. 1904. Filter of the continuous type consisting of elements arranged as a travelling endless belt, specially adapted for treatment of gold slimes by the cyanide process. 3.

27. Schmitt, E. D.—29 Aug. 1905; UK. 27,884, 30 Dec. 1904. Bottle stoppering machine with the sealing plunger or head composed of a number of yielding parts to compensate for irregularities. 1.

28. Michaelis, W.—22 March 1905; UK. 8611, 14 April 1904. Phonograph with the stylus mounted on a bridge piece connected to the sound box of the trumpet. Record discs are prepared by applying several coats of enamel, mixed with boracic acid to prepared surfaces of pulp, papier-mâche, etc 1.

29. New Expanded Metal Co—13 March 1905; UK. 24,831. 14 Nov. 1903. Machine with oscillating cutters for slitting and bending metal plates and bars to form bars, etc., with eyes such as are used in armoured concrete. 1.

30. New Expanded Metal Co.—13 March 1905; UK. 24,822, 14 Nov. 1903. Strengthening bars with opened slits for use in concrete walls, floors, bridge, etc. 1.

31. Armstrong, Whitworth & Co—11 Aug. 1905; UK. 25,002, 17 Nov. 1904. Hydraulic hoist with tilting platform for unloading railway trucks and adjustments for varying height of trucks. 1.

32. Ormond, J.—25 Aug. 1905. Bag spreader for tea and like packing machines consisting of pivoted plates opened and closed by the motion of the shoot. 2.

33. Jones, B. J.—17 May 1905. Flexible support and insulation for trolley wires of electric tramways 1.

34. Jones, B. J.—17 May 1905. Flexible support and insulation for trolley wires of electric tramways. 1.

35. Huff, C. H.—5 July 1905. Electrostatic separators with a rapidly varying static charge for treating ores. 2.

36. Daboo, D. M.—Bullock carts.

37. Liddle, G.—Railway tablets.

38. Crawford, A. A.—29 May 1905. On railway vehicles, lamps and fans are supplied with current of suitable tension by arrangements of cells, automatic switches, and dynamos driven from the axles. 2.

39. Kudlicz, J., Andre, A. C. F. V. & Friederici, H. R. O.—25 Aug. 1905; UK. 27,369, 14 Dec. 1903. Mechanical stokers for furnaces. 7.

40. Kehr, P.—11 May 1905. Aërating and bottling machine in which the liquid is aërated in the bottles. 1.

41. Winsor, R.—20 July 1905. Breaking and scutching machine for fibre with pivoted knife worked by treadle. 3.

42. Schmidt, G. C.—25 July 1905; UK. 22,565, 19 Oct. 1904. Rocking davit arrangement for raising and lowering ships' boats. 1.

43. Imbert, A. C.—18 March 1905. Screw and lever press for baling jute, cotton, hides, etc. 3.

44. Ohmer, J. F—2 Sept. 1905; UK. 8511, 13 April 1904. Apparatus for issuing tram car and other tickets from a roll, punching each in its proper section and registering the number issued, also means for printing, when desired, the number issued and the date on a record strip. 3.

45. Ohmer, J. F.—2 Oct. 1905; UK. 20,402, 21 Sept. 1904. Improvements on No. 44 of 1905 above 4.

46. Jonet, L.—16 Oct. 1905; UK. 12,087, 27 May 1903. Water-lift with counterbalanced self-emptying buckets. 1.

47. Harrington, B. R.—Excavator.

48. Lamme, B. G.—29 Aug. 1905 Electromotors with arrangements of inductive and non-inductive resistances connected to its field windings, so that they will work with direct or alternating currents. 1.

49. Central Cyclone Co.—13 March 1905; UK. 22,559, 19 Oct. 1903. Furnaces for steam generator, etc., with combustion chamber shaped to adapt it for firing with powdered fuel. 2.

50. Lowry, G. A.—13 March 1905; UK. 21,776, 15 Nov. 1904. Cotton picking or harvesting machines consisting of a wheeled carriage, carrying a number of men, each of whom manipulates dirigible pickers which are driven by gearing. 3.

51. Starrett, R—1 April 1905; UK. 1, 2 Jan. 1905 Cotton gin with comb attachments on stripping knife and feed board, and with special arrangement of suction chamber and draught. 2.

52. Nahapiet, J. D. S.—6 Sept. 1905. Disinfectant, etc., holder for use in rooms, etc. 1.

53. Ewin, W. B. & Gladstone Wyllie & Co.—18 July 1905. Railway sleeper of the pot type with one loose chair jaw. 1.

54. Sayer, R. C.—28 Aug. 1905; UK. 22,372, 13 Oct. 1904. Electric railways with pneumatically operated means for making contact between the vehicle and conductors. 9.

55. Taylor, J.—4 April 1905; UK 21,885, 11 Oct. 1904. Spray producers for humidifying, with valves for reversing the current to clean the nozzles and strainers. 1.

56. Cantwell, E. L.—4 Sept. 1905. Caps and necks for kerosine cans and machines for closing them by pressure 3.

57. Verma, S. N. & Jagat Narayan.—Ball bearings.

58. Flanagan, H. T.—17 April 1905. Lever catch for railway carriage and other windows. 1.

59. Mahomed Abdul Kuddus.—17 May 1905. Dark lantern with semi-circular mica front and spring shutters 1.

60. Robinson, A. S. F.—26 April 1905; UK. 22,550, 19 Oct. 1903. Spring wheels for vehicles. 1.

61. Robinson, A. S. F.—26 April 1905; UK. 809, 12 Jan. 1904. Spring wheels for vehicles. 3.

62. Anderson, A. W. & Forster, W.—29 Aug. 1905; UK. 23,660, 2 Nov. 1904. Looms with machine cut wheels for driving the wiper shaft, etc. 1.

63. Kendall, J. & Walke, C—28 July 1905 Turmeric is cleaned in a revolving conical barrel with a roughened inner surface and an internal cylinder loose on the shaft. 1.

64. Ammonal Explosives.—13 March 1905; UK. 4699, 25 Feb 1904. Explosives of the ammonium nitrate group containing a fusible component such as nitrocarbons. The compressed blocks are heated and dipped into a molten bath of the fusible constituent.

65. Sunderland, J. B., Fox, E. & Darby, D—28 March 1905. Saddletree with tubular members for riding and pack saddles 1.

66. Smith, F H.—29 Aug 1905; UK. 999, 14 Jan. 1904. Oil engine carburettors with pump for petroleum supply. 5.

67. Mapp, T. H.—29 Aug. 1905. Forage is heated in a vertical jacketed shoot, containing a revolving screw or bladed conveyor, before it is compressed. 1

68. Sharland, W. J—30 Aug 1905 Locks or fastenings for railway wagons, etc., with numbered indicator of cardboard, etc., which has to be broken before the lock is opened. 1.

69. Jackson, W.—8 Sept. 1905; UK 26,910, 9 Dec 1904 Tea drying oven with means for moving, charging and discharging the trays. 3

70 Bergmann, C.—29 Aug. 1905; UK 28,379, 27 Dec. 1904. Bearing with spring held collar for vertical shafts. 1.

71. Kaiser, Dr. K.—29 Aug. 1905. Ammonia is generated by passing hydrogen and nitrogen alternately or simultaneously over heated calcium or magnesium or their hydrides.

72. Rogers, A B. C.—Fodder

73. Boult, A. J—22 Dec. 1905; UK. 7475, 31 March 1903. Casting justified lines of logotypes and linotypes. 43

74. Forbes, W. C.—29 Aug 1905. Distance and course recorder for ships. The compass is caused to mark a ribbon which is moved or motor-driven by the flow of water through a pipe opening in front of the vessel. 3.

75. Shallis, F. W.—27 May 1905; UK 20,874, 29 Sept. 1903. Hydraulic baling press with safety arrangements for preventing compression until parts are ready 1.

76. Payne, C Y.—Water gauge.

77 Cardew, C E—25 April 1905. Railway vehicles, bogie arrangements for. 6.

78 Brennan, L.—29 Aug. 1905; UK. 27,212, 11 Dec. 1903. Gyrostats are utilised for giving stability to bicycles, motor cars, ships, submarine and aerial vessels, etc. 3.

79. Hirji, P.—29 Sept. 1905. Water-lift or mote with counterbalanced buckets and automatic clutch gear for reversing. 3.

80. Phillips, W. A. & Hutchins, F.—16 May 1905; UK. 6602, 21 March 1903. Spinning, etc., machines with twist tubes and winding-on bobbins for short-fibred materials. 5.

81. Davidson, S. C.—4 April 1905; UK. 8062, 7 April 1904. Air is cooled and filtered in an apparatus consisting of a fan and revolving drum, covered with previous material and dipping in water. 4.

82. Empire Oil Engine Syndicate.—28 Aug. 1905; UK. 26,403, 3 Dec. 1903. Carburettor for making oil gas and for use with internal combustion engines. The oil is sprayed by opposing jets in a chamber, mixed with air and withdrawn by a pump to a surface heater. 1.

83. Phillips, W. A. & Hutchins, F.—16 May 1905; UK. 6,601, 21 March 1903. Wire, stranded cable, thread, roving yarn, cord or other core is covered with cotton, silk, wool or other fibrous material which is supplied untwisted or as loose roving. This is separated and then compacted around the core as a spiral coating by an air vortex with or without the aid of pressing springs. 5.

84. Rosenberg, A.—28 Aug. 1905; UK. 7488, 29 March 1904. Acetylene. A canister, used for transport of carbide, is provided with an internal arrangement for admitting water and with an independent attachment to act as a generator or lamp 3.

85. Hutchinson, W. A.—31 Oct. 1904. Holder for card labels on railway vehicles. 2.

86. Ghatak, S—19 Dec. 1905 Revolving drier for grain, tea, etc, with internal screw for moving the material, and with dampers and arrangements for adjusting the height of the drum above the fire for controlling the heat. 1.

87 Greengrass, C. J.—Rubber spring tyre.

88 Craig, H. A., Cardew, C E. & Gresham, S. T.—13 May 1905. Self-closing door lock for railway vehicles, etc 4.

89. Srinivasa Iyengar, M V—16 Oct. 1905 Hulling rice machine of the pivoted hammer type with hand and foot lever gear. The machine may be used for other purposes. 1.

90 Moosa, M—Sugar-candy syrup

91. McAlpin, F D. & Hugget, H—27 May 1905. Harness traces of wire covered with leather with spring hook, cockeye and buckling piece. 1.

92. Pollard E. T.—23 May 1905; UK 19,620, 11 Sept 1903. Steam turbines with special arrangements of ports and means for reversing. 1

93. Sunbeam Acetylene Gas Co—23 Oct. 1905; UK 27,918, 20 Dec 1904. Acetylene generator with carbide receptacle carried by gas bell, lifting gear and condenser 1.

94. Hendryx, W. A.—24 May 1905. Mixed process for treating ores for recovery of gold, silver, copper, etc., by cyanide and other solutions, agitation, aeration, electrolysis, and concentration 3.

95 Hendryx, W. A.—24 May 1905. Apparatus for carrying out the process described in the previous case No. 94. 4.

96. Bourdil, F. F.—13 Nov. 1905; UK. 795, 14 Jan 1905. Microphone with active parts immersed in oil, etc. 1

97. Limaye, J. S—Tanas winding machine.

98. Marlow, G.—29 Sept 1905. Churn for butter making consisting of screw stoppered bottle held in a clamp mounted to turn on a stand. 1.

99. Restonji, M.—Fuel briquettes.

100. Ranking, G. S. A.—10 Nov. 1905. Boat releasing gear with cam operated hooks. 1.

101. Rogers, A. B. C.—Treating water.

102. Singer, B.—2 Sept. 1905. Dust laying composition consisting of some absorbent material to which oil is added.

103. Westinghouse Brake Co.—5 July 1905; UK. 14,318, 25 July 1904. Railway vacuum brakes with means for quickening both partial and emergency application. 1.

104. Willson, T. L.—30 Aug. 1905; UK. 18,106, 20 Aug. 1904. Automatic gas buoys with acetylene generator. 1.

105. Robin, P.—30 Aug. 1905; UK. 1045, 19 Jan. 1905. Pneumatic spring arrangements for vehicles of all kinds. 3.

106. Meyer, E. G. & Mudford, A. J.—30 Aug. 1905; UK. 27,653, 15 Dec. 1902. Gear for converting reciprocating into rotary motion. 1.

107. Meyer, E. G. & Mudford, A. J.—30 Aug. 1905; UK. 27,654, 15 Dec. 1902. Clutch gear for converting reciprocating into rotary motion. 1.

108. Meyer, E. G. & Mudford, A. J.—30 Aug 1905; UK 27,655, 15 Dec 1902. Gear for converting reciprocating into rotary motion adapted for motor cars. 1.

109. Meyer, E. G. & Mudford, A. J.—30 Aug 1905; UK 27,656, 15 Dec. 1902. Gear for converting reciprocating into rotary motion adapted for motor cars. 2.

110. Roberts, T.—6 Sept. 1905. Railway signalling. Key staff instrument working alone or in conjunction with the Morse system. 4.

111. Bull, W.—Brick kilns.

112. Preston, F. J. & Raper, J C. D—Crane.

113. Ross, P.—19 May 1905. Key interlocking box for railway points and signals. 1

114. Lamont, W. & Micchie, D K—1 May 1905; UK. 7556, 30 March 1904. Tea drying oven with the trays and top in sections tilted by cams and endless chain, and with louvres in fan duct closed when trays are being tilted. 2.

115. Walters, W. H.—8 Nov 1905. Life buoys with supports, water supply and defence against sharks. 1.

116. Davies, J. P.—12 May 1905; UK. 25,587, 23 Nov. 1903. Water tube boilers with upper and lower drums and vertical tube stacks. Means for shutting off elements, promoting circulation and supplying heated air. 2.

117. Bowen, F. E. W.—1 Sept. 1905; UK. 21,481, 6 Oct. 1903. Explosives consisting of ammonium perchlorate and aluminium or magnesium; and carbon, hydrocarbon, carbohydrates, or organic nitro compounds.

118. Bowen, F. E. W.—1 Sept. 1905; UK. 21,482, 6 Oct. 1903. Explosives consisting of nitrocellulose and ammonium perchlorate.

119. Sulman, H. L., Picard, H. F. K. & Ballot, J.—13 Nov. 1905; UK. 29,374, 31 Dec. 1904. Ores are treated for separation by a modification of the oil process in which the oiled particles are first exposed to air before being brought on to water. The separation may be effected on a vanning table. 2.

120. Kendall, C.—12 July 1905; UK. 1309, 19 Jan. 1903. Graphite is separated from its ore by a modified form of the oil process in described apparatus. 1.

121. Clark, D.—13 Nov. 1905. Gold and silver are recovered from slimes or zinc precipitates in the cyanide process by converting the silver and base metals into sulphates which can be washed out, leaving the gold.

122. Faure, J. M. A.—13 Nov. 1905; UK. 29,011, 30 Dec. 1904. Decorticating machine for finishing the cleaning of ramie and other fibre, having scraping cylinders and endless carriers with automatic release. 1.

123. Noor Din, Sheraj Din & Privett, W. H.—7 July 1905. Persian wheel with ball bearings. 1.

124. South African Remedy for Piles Syndicate.—Medicine.

125. Mirza, A. T.—10 Nov. 1905; UK. 10,227, 4 May 1904. Hydraulic engineering—automatic sluice gate pivoted below its centre with water-tight joints and with counterbalance to accelerate closure. 2.

126. Michell, H. C.—30 Aug. 1905; UK. 25,787, 26 Nov. 1904. Non-conducting compositions, blocks, etc., for steam pipes, etc., consisting of flake mica, and a siliceous binding agent such as sodium silicate, with or without asbestos and cork or other fibrous and porous materials, are burnt before use.

127. Westinghouse Brake Co.—5 July 1905; UK. 24,352, 10 Nov. 1904. Railway vacuum brakes arranged for gradual or full application by a valve, connecting the vestibule reservoir with the train pipe, which may be operated by the brake handle or ejector lever. 1.

128. Jellett, H. H.—28 July 1905. Collapsible and adjustable centerings for arches. 1.

129. Merrill, C. W.—18 Nov. 1905. Filter press for ores, etc. The units are provided with inlets and outlets for introducing gas or liquid and sluicing or forcing out the contents. Internal ribs in the containers provide for shrinkage of contents to obviate direct through flow of washing liquid. 3.

130. Grimwade, H. J.—1 Sept. 1905; UK. 13,533, 15 June 1904. Washer with spring teeth and flange for locking nuts. 1.

131. Boys, G. P.—14 Nov. 1905. Box for carrying cartridges. 1.

132. Shirtliff, F.—11 Nov. 1905. Decorticating machines for fibres with particular arrangements of scutching drums, holding and feeding rollers and plates, and air or water jets. 1.

133. Harvey, R.—1 Sept. 1905. Siphon discharge and valves operated by tilting trays and floats for discharging effluent from filter beds. 2.

134. Woodward, G. E.—31 July 1905; UK. 9277, 22 April 1904. Celluloid is rendered non-inflammable by admixture of fish glue, gum arabic, gelatine and rape oil.

135. Patel, N. W.—18 Sept. 1905. Cotton-ginning rollers are made of paper pulp, cotton, coir, or other fibre with a chemical salt and metallic wires incorporated, and are slotted to renew the grooves as the surface wears. 1.

136. Biddulph, L. S.—27 May 1905; UK. 23,649, 31 Oct. 1903. Floors for buildings are constructed by laying wire, cables, or netting over the girders and filling in with concrete. 1.

137. Coles, G. J.—16 May 1905; UK. 19,275, 7 Sept. 1903. Railway vehicle automatic couplings. 2.

138. Storey, W. E.—9 Aug. 1905. Flue gases from refuse destructors and chemical works are passed into water in a tank provided with means for circulating the water. 2.

139. Smallwood, A.—29 Aug. 1905; UK. 9924, 30 April 1904. Steam generator, annealing, and other furnaces are provided with arches, baffles, etc., for storing and distributing heat. Cooling chamber and conveyors are also described in connection with annealing furnaces. 5.

140. Rhodes, C. J. & Rhodes, W. H.—8 Aug. 1905; UK. 29,209, 31 Dec. 1904. Seamed and flush joints for oil and like cans and machines for making them. 4.

141. Rakhal Dass Khan.—14 Nov. 1905. Mill and fan winnowing attachment for grinding, husking and splitting dhal, grain, etc. The mill has horizontal stones with specially cut grinding faces, either stone being driven and adjustable. 1.

142. Ross, P.—5 July 1905 Railway facing point lock and detector. 1.

143. Butler, H. M.—18 July 1905; UK. 10,252, 4 May 1904. Axles for road vehicles are built up of H section with barrel ends. See also No. 560 of 1905. 1.

144. Martin, P. A.—1 Sept. 1905; UK. 6,141, 14 March 1904. Cartridge pouches with double or triple pockets are made from a single piece of leather or webbing. 2.

145. Jacobi, G. T. R. & Fischer, C R R.—1 Sept. 1905 Bottle stoppers consisting of flanged disc and washer pressed into undercut groove in neck 1.

146. H. H. Ram Singh, Maharaj Rana of Dholpur, Clogstoun, H C. & Thorpe, A. N.—10 Nov. 1905 Decorticating machine for fibres with revolving feed rollers, drums carrying beaters and brushes, and conveyor 1.

147. Stuart-Menteth, W. F.—30 June 1905. Sewage disposal systems with arrangements of baffles and overflow in septic tank, fixed distributor, double filter bed, and use of copper sulphate in the filtrate. 2.

148. Westinghouse Brake Co.—5 July 1905; UK. 27,294, 14 Dec. 1904. Railway vacuum brake with improved valve arrangements for quickening the partial and full application. 1.

149. Westinghouse Brake Co.—5 July 1905; UK 26,472, 5 Dec. 1904 Railway vacuum brake with improvements on the valve arrangements described in No. 127 of 1905. 1.

150. Lindquist, F. A.—29 Sept 1905. Telephone exchanges. 6.

151. Lynde, F. G.—12 July 1905. Bibcock with valve opened by tilting the spout. 1.

152. Thew, C. H.—31 May 1905. Rifle rack with locking device and means for preventing removal of cocking pieces or bolts. 1.

153. Smith, L. W.—29 Aug. 1905. Cement or plaster for building and other purposes consisting of various mixtures of sola pith, lime, white lead, oil and water.

154. Timmis, I. A.—21 Nov. 1905; UK. 2257, 4 Feb. 1905. Railway vehicles, bogie mountings for. 1.

155. Servai, A. S.—Water lift.

156 Duncan, D., Stratton, F. B. & Harwood, H.—15 Aug. 1905; UK. 13,612, 16 June 1904. Machine for turning, roughening and grooving the rollers and for trueing, sharpening and levelling the knives of cotton gins 1.

157. Colquhoun, J. A.—19 May 1905. Calculating stresses in bridge girders and like structures. 3.

158. Tierney, J. W.—12 May 1905; UK. 23,268, 28 Oct. 1904. Pneumatic hand tools. 1.

159. Nield, W. H. & Melland, W.—1 Sept. 1905; UK. 12,913, 9 June 1903. Coupling for end of driving ropes consisting of looped or other flexible link. 1.

160. Bourdil, F. F.—22 Dec. 1905; UK. 4571, 4 March 1905. Microphone, with movable parts supported on a fluid immersed in oil, etc., and connections. 1.

161. Terris, A.—1 Sept. 1905. Refrigerating coil for rotary ice-making machines consisting of a pipe coiled so as to free itself of lubricant as it revolves. 1.

162. Crespin, L.—1 Sept. 1905; UK. 27,565, 17 Dec. 1905. Artificial silk or other fibre is produced by squirting collodion into water from a special nozzle. The solvent for the nitrocellulose consists of ethylic and methylic alcohol and sulphuric ether with some oil or glycerine and may be recovered from the water. 1.

163. Cantwell, E. L.—10 Nov 1905. Match boxes are made of tapering form to accommodate the heads. 1.

164. Friestedt, L P.—2 Sept 1905. Sheet piling is composed of alternate piles of channel section and of channel section with riveted angle irons 1.

165. Patterson, A.—Locomotives.

166. Fruhling, O—16 May 1905; UK. 10,899, 11 May 1904. Suction dredging apparatus for emptying ships, deepening excavations or waterways, etc. The necessary water is provided by the suction pump and dredging is effected by a well-shaped chamber of which several may be fixed in a ship and controlled by valves. 9.

167. Fruhling, O—16 May 1905; UK. 10,900, 11 May 1904 Suction dredger with means for adjusting and fixing the section head 3.

168 Grasset, R. J. W—27 May 1905; UK. 410, 9 Jan 1905. Governor for preventing racing of marine engines operated electrically from a pneumatic tube in which the pressure decreases as the stern of the ship lifts. 1.

169. Richardson, E—27 May 1905; UK. 2973, 13 Feb. 1905 Steam engine piston valves. 2.

170. Artom, A.—30 June 1905; UK. 3694, 21 Feb 1905. Transmitting and receiving apparatus for wireless telegraphy. 3.

171. Jost, C.—Lamp.

172. Whyte, A.—28 May 1906. Sewage. The roof of an effluent tank in a septic tank installation is provided with a chimney under which is placed a fire or burner. Air inlets are placed under the eaves and a door in the roof gives access to the fire. 2.

173. Coe, J. R—16 May 1905; UK. 4654, 6 March 1905. Spinning ring of I section made of sheet metal. 1

174. Philp, W. R.—6 Feb. 1906. Water closet flushing valve operated by the door. 1.

175. Thompson Safety Appliance Co.—28 Feb. 1906; UK. 5662, 17 March 1905. Railway signals, electric block system with rails forming part of the circuits 4.

176. Hunt, B.—13 Nov. 1905. Liquids are separated from ores or other solids in apparatus in which the pulp is fed to the top of a pyramidal box; liquid escapes at the sides and solid is withdrawn from the bottom by a screw. 1.

177. A. B. C. Coupler Co.—18 Nov. 1905; UK. 26,165, 1 Dec. 1904. Railway vehicles, combined buffer and automatic coupling for. 2.

178. De Dion, A. & Bouton, G.—2 March 1906; UK. 29,370, 31 Dec. 1904. Plate clutches for motor cars, etc. 1.

179. Goulding, T.—18 Nov. 1905; UK. 20,461, 22 Sept. 1904. Billiard table cushions with strengthening and supporting strips of metal and partly arranged in recesses 1.

180. Stuckle, H. W. de.—21 Nov 1905; UK. 28,433, 27 Dec. 1904 Alkaline hydrates, such as potassium and sodium hydrates, and zinc sulphide in a finely divided condition suitable for paint, are prepared in the wet way by the reaction between zinc and the alkaline sulphide in the presence of the alkali. Hydrogen is evolved.

181. Stuckle, H. W. de.—21 Nov. 1905; UK. 2174, 3 Feb. 1905. Apparatus for carrying out the process described in the preceding specification consisting of a drum with means for heating and agitating the contents and of an adjustable feed for the materials. 1.

182. Esser, J. W., Barratt, G. W. & Barratt, F.—27 Feb. 1906; UK. 4774, 26 Feb. 1904. Magazine small arms. 4.

183. Krag, N. A.—15 Nov. 1905; UK. 17,126, 4 Aug. 1904. Post marking or stamp cancelling machine. Letters are fed from a shoot by a roller to marking rollers and then piled by a helical disc. 1.

184. Davidson, S. C.—18 Sept. 1905; UK. 7050, 3 March 1904. Centrifugal pumps and fans with inlet openings less in diameter than the inner edge of the blades and with special forms of casing, etc. Improvements on No. 480 of 1899. 7.

185. Davidson, S. C.—18 Sept. 1905; UK. 21,891, 11 Oct. 1904. Centrifugal pumps and fans with eccentric D, O, or other shapes of inlet and with special forms of casing. Improvements on No. 476 of 1898. 5.

186. Ewin, W. B. & Fleming, J.—24 July 1905. Water bottle in two telescoping parts combined with filter. 1.

187. H. H. Ram Singh, Maharaj Rana of Dholpur, Clogstoun, H. C. & Thorpe, A. N.—18 Nov. 1905. Decorticating machine for fibre with one or more pivoted or parallel motion, hand operated knives. 1.

188. Duggan, A. B.—1 Aug. 1905. Lubricator for axles of railway vehicles in which a pump, delivering lubricant to a pad, is worked by an eccentric. 1.

189. Ellis, G. A. & McGuire, P. J.—20 April 1906. Billiard tables with races for leading balls to the balk and spot ends. 1.

190. Perry, H. W.—Railway rails

191. Pickering, W.—13 Nov. 1905; UK. 13,809, 20 June 1903. Bread making. Part of the flour is mixed with water, heated, cooled, yeast is added and then, after action, is used with the rest of the flour.

192. Rosenberg, H. & E.—9 Jan. 1906; UK. 17,423, 10 Aug. 1904. Self-regulating dynamos driven from railway axles for lighting, etc. 2.

193. Voelker, A.—17 April 1906; UK. 10,873, 11 May 1904. Electric heating, granulated carbon is used as a resistance in electric furnaces. 1.

194. Blackford, H. T.—3 Nov. 1905. Briquetting machine for lignite with open ended, steam-heated moulds and reciprocating plungers. 1.

195. Liebentritt, J. F.—25 Aug. 1906; UK. 16,486, 26 July 1904. Multitubular boilers, especially for locomotives. 4.

196. Coles, H. E.—14 Nov. 1905. Hook at butt of rifle or gun for carrying it on horseback. 1.

197. Greengrass, C. J.—7 Nov. 1905. Fibre decorticating or extracting machine with plain and fluted rollers. 1.

198. International Oxy-Generator Syndicate & A. Rosenberg.—28 Aug. 1905; UK. 535, 8 Jan. 1904. Oil gas and other lamps specially designed for flash signalling. 5.

199. Ancel, J.—12 July 1905; UK. 6444 of 1904, 7 Oct. 1903. Grinding and crushing mill with toothed or ribbed hammer blocks pivoted on a revolving disc and working over an adjustable toothed or ribbed ring or blocks. 1.

200. Oatway, G. H. & May, C. E.—16 Jan. 1906; UK. 4073, 27 Feb. 1905. Fire alarm operated by expansion of a bar. 1.

201. Perkins, T. S. & Jackson, R. P.—14 Nov. 1905. Multiple unit control for electromotors or electric railways, etc. 4.

202. Gresham, J., Gresham, H. E. & Kiernan, G.—18 Nov. 1905; UK. 9273, 22 April 1904. Railway vehicle and locomotive brake system in which the vacuum brakes on the vehicles are connected with the steam brakes on the locomotives and tender. 5.

203. Mooney, E.—3 June 1905; UK. 14,022, 21 June 1904. Lubricating pad for railway, etc., axles composed of woven fabric with loose threads dipping into the oil. Improvements on No. 522 of 1904. 1.

204. May, T. H. D.—18 Nov. 1905; UK. 11,430, 18 May 1904. Mixing in definite proportions by screw conveyors of tapered form or varying capacity, drawing from hoppers which are adjustable along the screws. 1.

205. Burnside, A. M.—18 Nov. 1905; UK. 18,552, 28 Aug. 1903. Boxes are made from a continuous roll of card board or the like which is passed between a pair of rollers to be cut and creased to form the blanks. 1.

206. Stitt, W. R. & Davidson, A. J.—20 May 1905; UK. 11,349, 19 May 1903. Warp stop motion for looms. 6.

207. Seiple, H. M.—10 Aug. 1905; UK. 13,930, 20 June 1904. Sand moulding machines for the production of cores or moulds for casting screw threaded nuts and spindles, etc. 1.

208. Leede, J.—18 Nov. 1905. Oil gas is made in a retort containing refractory material and provided with adjustments for admitting air and oil, and with an adjustably speeded fan for withdrawing the gas. 3

209. Harrington, R. & Martineau, W.—28 Aug. 1905; UK. 28,775, 31 Dec. 1903. Screw nuts are made by coiling a strip. 1

210. Holden, W. J.—3 June 1905; UK. 22,711, 21 Oct. 1904. Spinning ring having a peripheral groove or track and annular traveller, provided with one or more hooks or eyes for the engagement of the yarn strand. 1.

211. Empire Oil Engine Syndicate.—28 Aug. 1905; UK. 11,971, 26 May 1904. Oil and gas engines of single or double acting types working on a two or four stroke cycle and suitable, in a three cylinder form, for marine propulsion. Valve, pump, reversing, starting and igniting gear are described. 3.

212. Woodroffe, C. S.—12 Jan. 1906. Linotype machines designed to produce type or letters or typographical printing surfaces adapted to print Arabic, Turkish, Persian, Hindustani, Javanese and Malaysian. 17.

213. Ross, P.—3 July 1905.—Railway point and signal lever with catch and key lock. 1.

214. Société Générale de la Soie Artificielle Linkmeyer.—14 June 1905. Cellulose thread is produced by squirting the cupro-ammoniacal solution, after it has been partially freed from ammonia by vacuum or by action of air, into dilute acid and then into an alkaline mercerising solution.

215. Société Générale de la Soie Artificielle Linkmeyer.—14 June 1905. Cellulose thread is produced by squirting the cupro-ammoniacal solution, after it has been partially freed from ammonia by vacuum or by action of air, into an alkaline solution. The thread is further exposed to air and then copper is extracted by acid. The cellulose is treated first with weak and then with strong cupro-ammonium for solution.

216. Darling's Patent Automatic Coupling.—22 Nov. 1905; UK. 3277, 10 Feb. 1904. Railway vehicles, automatic couplings for. 1.

217. Collett, J. F. H.—22 Nov. 1905; UK. 18,901, 1 Sept. 1904. Indicating and recording movement and speed of locomotives, tram cars, motor cars, and other machinery on a strip of paper driven by clock work. 2.

218. Richards, W. A. & Redrup, C. B.—11 Sept. 1905; UK. 13,314, 13 June 1904. Gas and oil engines of two cylinder, two or four stroke cycle type with fixed crank shaft and rotating cylinders, suitable for motor cars, etc. 1.

219. Thomson, B. T. L—6 Dec. 1905; UK 20,721, 26 Sept. 1904. Tyres for vehicle wheels with wooden rim and outer metal tyre in which renewable india-rubber blocks are secured. 1.

220. Raju, D. D—2 Nov. 1905. Oil mill with rotary mortar lined with wood and adjustably weighted pestle of special form. 1.

221. Thompson, E. W.—Ice-making

222. Begg, M.—21 Feb. 1906. Moving container apparatus for bulking, blending and mixing tea, grain, etc. 1.

223. Vorster, B. C. A—23 April 1906; UK. 18,908, 1 Sept. 1904. Damping and affixing adhesive stamps. 2.

224. Société Générale de Soie Artificielle par le procede Viscose.—4 Dec. 1905; UK. 6062, 22 March 1905. Spinning, fibres are twisted and coiled in a box arranged for ready removal of the skeins. 1.

225. Nethersole, M.—16 Oct. 1905 Slip hook for releasing falling gates on weirs on canals, applicable also for ships and boats. 2.

226. Shaw, C. H.—14 Feb. 1906; UK. 17,414, 10 Aug. 1904. Rock drills of the pneumatic type with automatic feed and means for clearing the cuttings. 3.

227. Uberoi, J. S.—20 July 1905. Hockey sticks built up of two or more pieces of wood. 1.

228. Duggan, C. R.—Books, etc.

229. Lachat, L. E.—24 Nov. 1905. Road vehicles, steering arrangements with sliding steering wheels for hand trucks, etc. 5.

230. Stetson, W. A.—14 June 1905; UK. 26,191, 13 Dec. 1904. Spinning rings with centrifugal brakes for travellers. 1.

231. Uhthoff, E. A. & J., & Young, C. P.—3 Nov. 1905; UK. 13,172, 12 June 1903. Soles for boots, shoes, etc., composed of hemp, flax, jute or other fibrous material in braid form placed on edge and stitched, with or without leather inner sole. 1.

232. Mawson, E. O.—Thermantidote.

233. Nussbaumer, J. S.—29 Sept. 1905; UK. 12,618, 3 June 1904. Spinning, winding machines and stop motions for bobbins. 2.

234. Hoffmann, R.—29 Sept. 1905; UK. 17,891, 27 Dec. 1904. Mining, flanged segments for tubbing shafts. 1.

235. Paramore, E. C.—29 Sept. 1905. Chlorine is subjected to electric discharges prior to use for bleaching. 1.

236. Gillette, M. G.—29 Sept. 1905. Bottle seals or caps and machine for fixing them by spinning over a shoulder on the bottle neck. 1.

237. Ganga Ram.—2 Oct. 1905. Railway sleepers built up of wooden blocks and channel ties. 1.

238. Wittinbaker, J.—Buildings.

239. Garner, H.—4 Dec. 1905; UK. 19,947, 16 Sept. 1904. Non-slipping and protecting band for pneumatic tyres. 1.

240. New Inverted Incandescent Gas Lamp Co.—19 Dec. 1905; UK. 23,466, 31 Oct. 1904. Protective metal and asbestos cage for incandescent mantles of gas burners. 1.

241. Irani, J. H.—20 Oct. 1905. Press for hay, straw, etc., with power applied by hand winch and ropes. 2

242. Perman, W. F.—24 Nov. 1905. Basket with partition and knife for gathering fine and coarse tea leaf separately. 1.

243. Gray, A.—Non-conducting composition

244. Subba Rao, C. K.—Pump

245. Hulburd, P.—28 Aug. 1905; UK. 6871, 31 March 1905. Railway carriage and other self-closing locks without springs. 1.

246. Daniels, J. Van T.—9 Dec. 1905; UK. 23,852, 3 Nov. 1903. Vibrating apparatus giving a rapid succession of blows for therapeutic purposes. 1.

247. Pickering, A. E.—20 Dec. 1905. Railway crossing gates are operated by a winch appliance provided with interlocking arrangements for points and signals. 1

248. Manoolal, Lala Chowdhari.—Warping machine.

249. Arbuthnot, M.—7 March 1906.—Road vehicles constructed of bamboo or tubes. 8.

250. New Century Engine (Foreign Patents) Co.—1 Dec. 1905. Steam and air are superheated separately and then mixed for use in engines, turbines, etc. 10.

251. Blake, H. V.—9 Dec. 1905; UK. 8316, 19 April 1905. Hydraulic rams for lifting water with special construction of body and valves. 3.

252. Donning, G. W. & Ambrose, H. T.—14 Feb. 1906; UK. 13,979, 23 June 1903. Typewriters of the flat platen type, specially adapted for writing in books, with means for manifolding. 10.

253. Russell, R. A. C. & Russell, A. C.—9 Dec. 1905; UK. 7280, 26 March 1904. Saddle trees for riding and driving strengthened by inserted metal plates. 3.

254. Jackson, G.—20 April 1906. Deep boring apparatus on the diamond system with means for removing the core. 1.

255. Thew, C. H.—25 July 1905. Rifle racks, as described in No. 152 of 1905, with means for securing bayonets against theft. 1.

256. Hollings, L. S.—22 Dec. 1905; UK. 8181, 9 April 1904. Cartridge holders or chargers for magazine rifles. 1.

257. Tait, A. L. J.—25 Aug. 1905; UK. 7556, 10 April 1905. Flax and other fibre is treated by various process of wet and dry squeezing, rubbing, scutching, etc., in described forms of roller and belt apparatus. 2.

258. Lecaime, C.—3 Jan. 1906; UK. 22,885, 24 Oct. 1904. Rotary engines, pumps, blowers, etc., of the annular chamber type. 1.

259. Portable Folding Mosquito Bar Frame Co.—3 Jan. 1906. Folding mosquito bar frame. 2.

260. Lambert, W. A.—Punkah.

261. Cheesman, J. E.—18 July 1905; UK. 7415, 7 April 1905. Cotton gin with a number of spring strippers driven by eccentrics. 2.

262. Chamberlain, W. & A.—9 Jan. 1906; UK. 17,821, 18 Aug. 1903. Bicycle hub brake. 1.

263. Jones, W R. S.—30 Aug. 1905; UK. 13,213, 12 June 1903. Railway non-automatic couplings of the link type with means other than screws for tightening them. 5

264. Jones, W. R. S.—30 Aug. 1905; UK. 16,917, 1 Aug. 1903. Railway couplings similar to No. 263 above. 2.

265. Murray, D.—10 July 1905; UK. 3385, 11 Feb. 1904. Retransmitting telegraph messages which have been received upon a perforated strip with a single line of signal perforations. 1.

266. Battistoni, R. & Rotelli, R.—15 Jan. 1906. Sugar is obtained from molasses or purified by adding a mixture of barium carbide and oxide to precipitate barium sucrate which is then decomposed by carbonic acid. Carbon may be added to the liquids for filtration. The precipitant is regenerated from the carbonate in special form of electric furnace which may also be used for preparing other barium compounds. Strontium may replace barium. Mother liquors, containing potassium, may be treated to produce manure, etc.

267. Berckefeldt, G. von & Talbot, A.—20 July 1905. Stopper with spring valve adapted for use with sterilizing bottles and other vessels. 1.

268. Société Générale de Soie Artificielle par le Procede Viscose.—10 Jan. 1906; UK. 5766, 18 March 1905. Filtering and pumping apparatus for cellulose and other solutions. 3.

269. Arbuthnot, M.—Road vehicles.

270. Gereson, J. N.—24 July 1905. Hinge with sliding pin, part round and part square, for holding railway wagon doors. 1.

271. Siddall, G. F. & McDougall, A.—Furniture castor.

272. Nawab Hozoor Meerza.

273. Nawab Hozoor Meerza.—Wire ropeways.

274. Morgan Crucible Co.—13 March 1906; UK. 9875, 10 May 1905. Plumbago manufactured into stratified blocks.

275. Morgan Crucible Co.—8 Jan. 1906; UK. 11,522, 19 May 1904. Electric commutator brushes, etc., made from graphite.

276. Anderson, T. M. & Wormald, R.—8 Jan. 1906; UK. 18,395, 25 Aug. 1904. Rolling mill for making screw nut blanks from a bar. 2.

277. Beadle, C. & Stevens, H. P.—16 Oct. 1905; UK. 14,588, 29 June 1904. Cattle food is prepared from cotton seed hulls or other material containing fibre by adding mineral acid and heating to render the fibre brittle. The product may be ground and neutralised.

278. Mistri, H. D.—30 Sept. 1905. Adjustable connecting rod for stripper knives of the Macarthy gin. 1.

279. Sulman, H. L., Kirkpatrick-Picard, H. F. & Ballot, J.—16 Jan. 1906; UK. 5260, 13 March 1905. Ores, treating. Sulphides, etc., are separated from their gangue by their higher flotative power when dry or when subjected alternately to air and water. The process may be carried out on avanning or other dressing apparatus.

280. Sulman, H. L., Kirkpatrick-Picard, H. F. & Ballot, J.—16 Jan. 1906; UK. 7803, 12 April 1905. Ores, treating. Graphite, sulphide and other ores are treated by the oil process modified to produce a scum or to liberate grease or gas on the particles. Mixing and pointed-box apparatus is described. 1.

281. Bergmann, C.—16 Jan. 1906; UK. 9298, 3 May 1905. Flyer spindles for spinning, doubling, twisting and like machines. 1.

282. Coulthurst, H., J. & A., Yarrow, M. & Haworth, W. R.—16 Jan. 1906; UK. 14,787, 1 July 1904. Earthenware pipe moulding and cutting machines. 4.

283. Phillips, D.—16 Jan. 1906; UK. 4519, 4 March 1905. Spindle drawing arrangements with tensioning and adjusting devices for spinning frames, etc. 11.

284. Braby, H – 16 Jan. 1906. Gas burners with fan attachment for mixing air and gas for heating and lighting. 1

285. Ryan, J. N.—16 Jan. 1906; UK. 4388, 22 Feb. 1904. Oil burner with steam atomiser. 1.

286. Jyoti Pershad.—28 May 1906. Sugarcane mill with three vertical rollers and guides, driven by spur and worm gearing under the rollers. 1.

287. Shelly, T. P.—2 Oct. 1905; UK. 9700, 8 May 1905. Bolts are headed by upsetting and then shaping the blanks in dies. 1.

288. Shelly, T. P.—2 Oct. 1905; UK. 9701, 8 May 1905. Bolts are headed by upsetting and then shaping the blanks in die. 2.

289. Ducker, W. M.—20 Jan 1906; UK. 2158, 28 Jan 1904. Portable buildings constructed of ready made parts and sections. 6.

290. Winsland, F. E.—24 Jan. 1906. Tea boxes with corner protectors and arrangements for sampling contents. 1.

291. Morley, W. S. & Hamilton, G.—3 Aug. 1905. Non-conducting or heat resisting roofing tiles, slabs and bricks containing a layer of mica.

292. Cloud, J. W.—24 Jan. 1906; UK. 24,886, 16 Nov. 1904. Railway rail fish joints. 1.

293. Hall, D.—11 Dec. 1905. Cotton ginning machine with reciprocating stripper in sections, adjustable clearers and rolls, a brush or other stirring or seed rolling device, and a doffer for the cotton. Globe mounted bearings are used. 3.

294. Mojumdar, A. K.—19 April 1906. Front driven bicycle with pneumatic springs in frame. 2.

295. Subba Rao, C. K.—Pump.

296. Hatmaker, J. R.—28 May 1906; UK. 13,907, 22 June 1903. Drying machines applicable for evaporating milk, etc., in thin films. Rotary cylinders are heated internally and the dried material is removed from the surface by adjustable stripper knives. 1.

297. Chenoweth, A. C.—16 Jan. 1906; UK. 11,192, 29 May 1905. Concrete columns, piles, girders, sleepers, etc., are made by coating wire netting, then rolling and shaping. 2.

298. Gill, L. W.—31 Jan. 1906; UK. 10,771, 23 May 1905. Spinning and twisting machine with turbine drive and other details. 2.

299. Bellew, F. D.—28 Feb. 1906; UK. 12,328, 14 June 1905. Releasing gear for ships' boats, etc. 1.

300. Cotton, F.—19 Jan. 1906. Oil burner for furnaces. 1.

301. Bruce, J. L.—19 Jan. 1906; UK. 26,680, 7 Dec. 1904. Lighting and extinction of street and other gas lamps are effected by apparatus which is operated by varying the pressure in the mains. 4.

302. Braun, R.—3 Nov. 1905; UK. 23,885, 4 Nov. 1904. Magnetic brake shoes for railway and other vehicles are arranged so that the magnetic flux passes across, instead of lengthwise, in the wheel or rail. 1.

303. Traill, J. C.—27 Jan. 1906. Duplex safety pins for hanging curtains, etc. 1.

304. Goldie, A. S.—5 Aug. 1905; UK. 747, 14 Jan. 1905. Steam boiler furnace with arrangements of plates and chambers for heating the air for combustion. 2.

305. Henrich, J G.—25 Jan 1906; UK. 2147, 28 Jan. 1904. Stoppers and taps for siphon bottles and fire extincteurs. 1.

306. Consolidated Engineering Co.—25 Jan. 1906; UK. 13,227, 12 June 1903. Railway vacuum brakes with valve for allowing rapid emergency application. 1.

307. Harley, W. A.—Tea rolling.

308. Sherman, D. F.—24 Jan. 1906; UK. 13,245, 27 June 1905. Fruit preserving. 1.

309. Cross, J. W.—27 Sept. 1905; UK. 10,385, 5 May 1904. Oil engines with arrangement to supply part of the compressed air charge after combustion commences; pump, governing, and valve gear. 4.

310. Riep, J. W. & Bauer, G. H.—3 March 1906; UK. 7231, 5 April 1905. Greasing material for fibrous material and woven fabrics prepared from vegetable oils and alkaline lyes.

311. Weaver, J. L.—27 Jan. 1906. Placer mining and concentrating and amalgamating apparatus for gold and other ores with screening, rotary drum and fixed tank appliances. 7.

312. Houghton, D. W.—Taps.

313. Thanawalla, F. B.—12 Feb. 1906. Perfume diffuser consisting of a fan, screen and casing. 1.

314. Mirza, A. T.—31 Jan. 1906. Sluice gates pivoted at the bottom and held up by counterweights or springs for regulating the water level automatically. 5.

315. Lowry, R. C.—10 Feb. 1906. Adhesion between wheels and rails on railways is increased by an arrangement of eletro-magnets. 2.

316. Haring, P. P.—10 Feb. 1906. Cotton picking machine with a number of revolving picker heads carried by revolving chains or drums on each side of a carriage. 6.

317. Société dite Peignages et Filatures de Bourre de Soie.—20 July 1906; UK. 12,233, 13 June 1905. Spinning. Improvements on the construction and mounting of the ring described in No. 374 of 1904. 1.

318. Moss, E.—10 Feb. 1906. Coin freed apparatus for stamping or franking letters, telegrams, etc. 7.

319. Clerici, M.—Hackles.

320. Société Anonyme Westinghouse & Leblanc, M.—3 Nov. 1905; UK. 23,613, 1 Nov. 1904. Refrigerating and ice-making machine of the vacuum type in which steam ejectors in series produce the vacuum. 1.

321. Peters, N. O. & Matadin Sukul.—Latrine.

322. Mahomd Abdul Kuddus.—16 Oct. 1905. Lamp domes of mica sheets with metal fastenings. 1.

323. Mahomed Abdul Kuddus.—5 Sept. 1905. Lamp domes of mica sheets with metal fastenings. 1.

324. Smith, F. H.—14 Feb. 1906; UK. 11,753, 21 May 1905. Governor of the induction type for internal combustion engines with valve operated automatically and by hand. 1.

325. Holden, J.—14 Feb. 1906; UK. 7607, 10 April 1905. Steam boiler screwed stays with recesses partly closed by pressure to afford support against torsion. 1.

326. Kirkegaard, G. & Jebsen, F.—14 Feb. 1906. Cap stoppers for bottles with eccentric or cam ring for closure. 1.

327. Society Jules Jean & Raverat, G.—14 Feb. 1906. Condensing vapours of volatile solvents, either pure or mixed with other gases, vapours, or steam by the aid of acids.

328. Liedke, W. & Rabenhorst, O.—24 Aug. 1905; UK. 8575, 20 April 1905. Vaporizer tube for incandescent oil lamps. 1.

329. Gunmaker, G. H.—3 March 1906. Carbonic acid generator, aerating and bottling machines. 1.

330. Parker, J.—Road making.

331. Wood, S. P. & McKenzie & Holland, Ld.—14 Feb. 1906; UK. 9377, 23 April 1904. Electric treadles or contact makers for railway signalling, etc., worked by depression of rail. 2.

332. Dutton, C., Edmonds, C. H. W. & McKenzie & Holland, Ld.—14 Feb. 1906; UK. 12,899, 7 June 1904. Electric and mechanical locking and interlocking gear for railway points and signals. 4.

333. Geisor, K. & Kehrli, H.—24 Jan. 1906; UK. 2500, 1 Feb. 1905. Printing roller composition consisting of starch and chloride of magnesium or other metal.

334. Morgan Crucible Co.—25 Jan. 1906; UK. 22,659, 20 Oct. 1904. Graphite and copper, etc., composition for commutator brushes, bearings, etc. Reference is made to Nos. 274 and 275 of 1905.

335. Thomas, R. J. & Howe, W. F. S.—25 Jan. 1906. Sugar manufacture. Defecation or clarification by electrolysis. 1.

336. Drury, W. H.—22 Feb. 1906; UK. 9686, 8 May 1905. Fabrics woven from core yarn. 1.

337. Drury, W. H.—27 Feb. 1906; UK. 9687, 8 May 1905. Fabrics woven from core yarn. 1.

338. Marconi's Wireless Telegraph Co.—14 Feb. 1906; UK. 24,850, 16 Nov. 1904. Detecting, rectifying, and measuring alternating currents, especially those of high frequency used in wireless telegraphy. 1.

339. Tierney, J. W.—1 Sept. 1905; UK. 22,642, 20 Oct. 1904. Pneumatic hammers and like hand tools. 1.

340. Berg, G.—21 Feb. 1906. Check valve for gas and liquid, especially for gassified oil burners. 1.

341. V. R. Swaminatha Mudaliar.—24 Jan. 1906. Hand carts for picking up and moving sanitary buckets; also lids for the buckets. 1.

342. Fleming, Madame J. M. L.—27 Feb. 1906. Vaporizer and burner for incandescent and other oil lamps for lighting and heating. 2.

343. Appleby, J. F.—27 Feb. 1906. Cotton picking or harvesting. Wheeled machines with aprons and grates to hold the plants while revolving pickers are moved in and out amongst them. Stripping and conveying mechanism collect cotton from the pickers. 10.

344. Grimshaw, W.—Clutch.

345. Pile, A.—21 Feb. 1906. Self-filling oil lamp. 1.

346. Mangrulkar, G. R.—Water lift.

347. Fleming, J. & Watson, W. J.—Railway brakes.

348. Sulzer, J.—28 Feb. 1906. Internal combustion engines in which air and gas are separately admitted to the cylinder. 1.

349. Sulzer, J.—28 Feb 1906. Internal combustion engines dispensing with ignition devices and external pumps, etc. 1.

350. Strauss, C. F.—9 Dec. 1905; UK. 17,183, 5 Aug. 1904. Ore feeding arrangements for stamp batteries. 3.

351. Apjohn, J. H.—28 Feb. 1906; UK. 14,564, 28 June 1904. Tea is compressed into tablets by machinery comprising conveyors, steaming, weighing and pressing appliances. 2.

352. Ducker, W. M.—2 March 1906; UK. 4218, 1 March 1905. Roofing for portable buildings. 1.

353. Lalau, F.—28 Feb. 1906. Cap stopper for bottles, cans, etc. 2.

354. Submarine Signal Co.—27 Sept. 1905. Submarine signalling by bell or other sounder. 2.

355. National Wire Bound Box Co.—12 March 1906. Boxes of the wire bound type, made from thin wood, and machinery for cutting the sheets attaching the cleats and wires, and making the boxes. 8.

356. Sciple, H. M. & Ross, M. L.—Casting metals.

357. Sciple, H. M. & Ross, M. L.—8 Sept. 1905; UK. 18,738, 30 Aug. 1904. Sand for moulds and cores for casting metal is mixed with a drying oil.

358. Cosserat, W. A. P.—3 March 1906. Railway points and locks acting directly on the tongues. 2.

359. Halliday, C. O.—25 Nov. 1905. Filing clip and box for letters, etc. 1.

360. **Wolf, J. D.—4 Dec. 1905; UK.—17,407, 10 Aug. 1904. Ores are washed and separated on an endless travelling belt coated with grease. 3.**

361. **Bristow, A. H.—16 March 1906. Smoke from furnaces, etc., is consumed by admitting air into the chimney. Reference is made to No. 447 of 1903 and of 361 of 1904. 1.**

362. Toledo Glass Co.—21 Feb. 1906. Glass shaping machine for blowing bottles and other hollow articles. 10.

363. Monitor Shipping Corporation, Ld.—21 Feb. 1906; UK. 1087, 19 Jan. 1905. Ships and boats with special forms of hulls and corrugated plating. 1.

364. Chamberlain, W. & A.—20 July 1906; UK. 20,242, 21 Sept. 1903. Bicycle combined brake and free wheel mechanism. 1.

365. Fourcault, E.—21 Feb. 1906; UK. 28,790, 31 Dec 1903. Glass sheets and plates are drawn from the molten metal in the furnace, rolled and annealed. 8.

366. Greeff, E. F., Tilt, A. & Rossire, C. C.—7 March 1906. Caoutchouc is obtained from plants of the nettle family by the action of solvents.

367. Brown, F. J.—Rifle range markers.

368. Michie, D. K. & Golledge, G. H.—4 Sept. 1905; UK. 330, 7 Jan. 1905. India-rubber is separated or coagulated from the milk or juice in a revolving vessel containing agitators. 1

369. Fiddian, W., Penn, J. & Killon, H B.—2 March 1906. Sewage distributors of rotary automatic type. 2.

370. Vriesland, A. I. Von.—2 March 1906; UK. 9001, 28 April 1905. Incandescent mantle for gas lighting made of cross woven material. 1.

371. Utility Cotton Picker Co—5 May 1906. Cotton picking or harvesting. A hand worked machine for use in the field consists of a revolving picker with teeth projected eccentrically from a casing to pick and deliver the cotton on to a conveyor which carries it to a bag, the whole being attached to the user. 3.

372. Thorneycroft, J. B., Farquhar, M. G. & Hill, A. H.—19 Sept. 1905; UK. 26,135, 1 Dec 1905. Bolt action for breech-loading small arms adapted for magazine rifles in which the length is reduced by projecting the magazine and action into the stock. 2.

373. Kucss, V. J.—7 Dec. 1905 Soap and fuel briquettes are prepared from petroleum. The soap is made with the aid of animal fat, resinous bodies, soda and hydrochloric acid. Other combustible mater is added for briquettes.

374. Greeff, E. F, Rossire, C C. & Tilt, A —7 March 1906. Fibre decorticating machine, specially for rhea, with automatic feed belt and holding rolls and beaters. 3.

375. Cosserat, W. A. P.—12 March 1906; UK. 16,277, 22 July 1904. Railway pneumatic signalling systems, especially for single line railways. 3.

376. Manuel, C. O.—31 Jan. 1906. Tins for holding petroleum or other fluid. The opening consists of a piece cut or punched out during manufacture of the tin or lid but joined by a neck. It is closed by solder. 1.

377. Butcher, Mrs. I. C.—8 Nov. 1905. Photographs in bas relief are produced by removing the papers from the film, backing with sheet lead, pressing with aid of outline cut cards, and filling with a hardening composition.

378. Thorpe, A. N.—18 Nov. 1905; UK. 12,372, 14 June 1905. Railway vehicle brakes applied from either side by hand and foot levers and locked and released from either side by ratchet gear; also applied on parting of train by eccentric operated by screw shaft coupled along the train. 3.

379. Lane, S. T. H. & Staunton, J. L.—7 March 1906. Tea bulking, blending, and mixing apparatus of the hopper and valve type. 1.

380. Nielsen, C.—9 March 1906; UK. 11,820, 6 June 1905. Valves for pneumatic tyres and pumps. 1.

381. Stiefelhagen, W. J.—Bamboo jaffrey work.

382. Hale, A.—20 Oct 1905. Ferrule extractors for boiler and condenser tubes, etc. 1.

383. Brown, H. E.—2 Oct. 1905; UK. 2023, 1 Feb. 1905. Railway brake appliances in which the tangential pull on the brake blocks is utilized to control the pressure. 2.

384. Perrin, J.—21 March 1906; UK. 5512, 16 March 1905. Spinning, drawing apparatus for short stapled textile fibres. 2.

385. Tice, W.—8 Nov. 1905. Latrine with arrangements for separating liquid and solid matters. 1.

386. Anthony, J. D.—Fuel.

387. Ramji, G. K.—17 Feb. 1906. Brick kiln with a number of kiln chambers working to a common chimney and arrangements of bricks in the chambers. 4.

388. Gardiner, A.—Railway signals.

389. Kemp, W. H.—Mussacks.

390. Gajjar, C. N.—27 March 1906. Wheels for vehicles, with special arrangement of spokes. 1.

391. Mirza, A. T.—2 April 1906. Module consisting of sliding door and float. 1.

392. Gulam Hussain Saheb, G. A.—Cigarettes.

393. Mirza, A. T.—2 April 1906. Water-supply regulators for canals with hinged pipe or valve controlled by float. 2.

394. Subba Rao, C. K.—Water lift.

395. Subba Rao, C. K.—6 June 1906. Windmill with vertical shaft, cup shaped vanes and adjustable wind screen and connection from shaft to driven machine. 1.

396. Tice, W.—18 Dec. 1905. Sewage disposal septic tank installations with means for supplying chloride of lime or other sterilizing agent to effluent, and open troughs and sprayers for delivering effluent to a double compartment effluent tank. 1.

397. Gunmaker, G. H.—31 Oct. 1905. Oil vaporizer and burner for heating and incandescent lighting lamps. 2.

398. Foss, L. L.—31 March 1906. Cotton gin with two rollers and adjustments for bearings and other parts. 4.

399. Stockwell, A. P. & Beeken, W. H.—Typewriter.

400. Armstrong, Whitworth & Co., Ld.—7 April 1906; UK. 8079, 15 April 1905. Small arms adapted for use as machine guns. 1.

401. Siegwart, H.—17 April 1906; UK. 9955, 11 May 1905. Moulding hollow artificial stone beams or girders from cement and means for mixing the materials. 1.

402. Jones, T. G. & Craig, W. J.—17 April 1906. **Latrines with arrangements for separating liquid and solid materials.** 1.

403. Hill, E. J.—19 Feb. 1906. Railway vehicles, hand lever brake gear. 3.

404. Macdougall, A.—Railway vehicles.

405 Dulton, S. T.—11 April 1906. Railway signals, tablet exchanging apparatus. 2.

406. Muir Mills Co. & Arbuthnot, A. H.—31 Aug. 1906. Convertible valise and tent. 1.

407. Singhgi, H. H. Sir Pratap.—Bridles and martingales.

408. Carter, F. G.—Envelopes.

409. Walke, C—18 April 1906. Punching machine for making leather discs for ginning, etc., machines. 1.

410. Tice, W.—18 Dec. 1905. Latrine flush consisting of a measuring chamber and pair of tandem valves operated by treadle. 1.

411. Sharland, W J.—Latch.

412. Sharland, W J.—Latch.

413. Perry, H. W—17 April 1906. Railway vehicle with boxes on rollers constituting the body. 1.

414. Gill, A. B.—7 April 1906. Railway vehicles with axle driven dynamos and storage batteries for lighting. 1.

415. Mahomed Abdul Kuddus.—Mica.

416. Chettiar, A. R. P.—Inks.

417. Swan, P S.—9 Feb. 1906 Roofs for shed buildings such as mills and factories. Improvements on No. 280 of 1900 3.

418. Walke, C.—18 April 1906. Cotton gin rollers made of pieces of leather. 1.

419. Carbery, V. R. & Beahan, J. J—19 April 1906 Slip shackle for ships and other cables. 1.

420. Brittan, F W. & Cross, L. H.—24 Oct. 1905; UK. 21,164, 2 Oct. 1903. Washers with serrations, projections or tongues for locking nuts. 2.

421. Magnus, P. & Davis, T. J.—7 Sept. 1906. Process of preparing leather.

422. Dion, A. D. & Bouton, G.—7 Sept. 1906; UK. 29,371, 31 Dec. 1904. Friction clutch for motor cars, etc. Improvement on No. 178 of 1905. 1.

423. Storey, W. E.—Destructor furnace.

424. Long, A. D—25 Oct. 1905. Railway vehicles, combined shade and stopcock for gas lamps. 1.

425. Cotton, F.—20 April 1906 Oil gas producer and burner for furnaces 1.

426. Crofton, H. S—12 June 1906 Military bivouac cape for infantry and cavalry, adaptable also as a blanket, tent, etc. 2

427 DeSouza & Co., E. M.—Drying material.

428. Ozonized Oxygen Co—13 March 1906; UK. 5790, 9 March 1904. Ozonizing apparatus for bleaching and sterilizing. 1.

429. **Stead, J. C.**—17 April 1906; UK. 18,710, 30 Aug. 1904. **Carbonic acid is recovered from furnace gases with the aid of apparatus for absorbing and liberating it from lye. 1.**

430. Société Anonyme Mathey & Co.—Insulation.

431. Berliner Aus-Stellungs Gallerien.—25 July 1906; UK. 14,887, 19 July 1905. Advertising devices. 2.

432. Armstrong, Whitworth & Co.—7 April 1906; UK. 13,966, 6 July 1905. Railway traverser for quay and like rails and connections. 2.

433. Rhodes, C. J.—1 Nov. 1905; UK. 15,102, 22 July 1905. Double seaming machines for square or oblong oil and other cans having solid corners. 4.

434. Collier, A. T.—17 April 1906; UK. 27,716, 17 Dec. 1903. Securing solid elastic tyres on wheels. 2.

435. Gray, B. P.—17 April 1906; UK. 285, 6 Jan. 1905. Hoof pads for horse shoes. 3.

436. Cantwell, E. L.—14 Feb 1906. Self-registering turnstile gate for latrines, etc. 3.

437. Shavaksha, S.—Lock nut.

438. Ferguson, J. W. & G. W—10 May 1906. Brick-making machine. 1.

439. Merrill, C. W.—23 April 1906. Filter presses for treating ores with arrangements for removing the cake, treating it with liquids, and keeping it in contact with the frame 6

440. International Cigar Machinery Co.—23 April 1906. Cigar-making machinery with means for manipulating the moulds, applying the wrappers to the fillings and finishing the ends. 9.

441. Wheatley, W. G—12 Dec 1905. Railway points and signals. The lever locking frame described in No. 117 of 1888 is modified by altering the position and form of the duplex plunger and gear. 2.

442. Hodgkinson, Mrs. J. P.—9 March 1905; UK. 9687, 27 April 1904. Abdominal belts. 1.

443. Bond, S. L. & Jaudon, J. C.—29 May 1906 Cotton-picking or harvesting. Revolving pickers, with slit teeth eccentrically projected from casing, pick and deliver cotton on to conveyor, the whole being universally mounted on wheeled truck. 3.

444. Randolph, T. H.—28 April 1906; UK. 12,748, 6 June 1904. Dressing cases, travelling bags, etc., with movable fittings. 1.

445. Herbert, H. W. & Gwyther, F. W.—18 June 1906 Dust shield and oil-retaining cap for railway axles. 3.

446. Herbert, H. W. & Gwyther, F. W.—5 June 1906. Roller friction stop for railway carriage and other windows. 1.

447. Regenerated Cold Air Co.—8 Nov. 1905. Air-drying, moistening, purifying and medicating apparatus with motor, fan, and liquid distributor. 2.

448. Charleston, D.—4 April 1906. Mending punctures in pneumatic tyres.

449. W. & F. Walker, Ld., & Freestone, J. T.—9 March 1906. Disinfecting and deodorizing blocks containing naphthalene and essential oil. 1.

450 McKin, F. C.—19 Feb. 1906; UK. 12,999, 8 June 1904. Pneumatic tyres with independent air chambers. 2.

451. Bhawaniram, L. & Nadap, K. M.—20 July 1906. Tanas winding or warping machine with skeleton drum, automatic thread guide and driving gear 3.

452. Penwarden, C. W. H. & Renny, S. M.—Field gun.

453. Bhagat Ram.—28 Nov. 1905. Hockey sticks are built up of bent pieces of wood. 1.

454. Thompson, W. B.—31 Aug. 1906. Jute-reaping machinery mounted on a vessel for use in deep or shallow water. 2.

455. Webber, W.—12 May 1906. Punching machine for making metal capsules. 4.

456. Duncan, D.—21 May 1906. Cotton-packing machine for filling the boxes for hydraulic presses. 1.

457. Sen, M. K.—6 Feb. 1906. Water level indicator for tanks. 1.

458. Poulsen, V.—1 Dec. 1905; UK. 18,037, 6 Sept. 1905. Wireless telegraphy receiver with the wave indicator or coherer in intermittent contact with the receiving system proper. 2.

459. Hamilton, B. T. & Stroud, L.—16 Jan. 1906; UK. 2111, 2 Feb. 1905. Locking devices applicable to control levers, and brake and steering mechanism in motor cars, etc. 1.

460. Bodemer, J. G.—16 July 1906; UK. 18,671, 15 Sept. 1905. Spinning, self-acting mules. 1.

461. Vorster, B. C. A.—19 May 1906; UK. 2753, 10 Feb. 1905. Damping and affixing adhesive stamps. 2.

462. Lorenz, J.—4 May 1906. Ventilation. Pivoted louvres or slats for windows, shutters, doors, panels, etc., are made of V-section. 1.

463. Dunnett, F. E.—4 May 1906; UK. 23,679, 2 Nov. 1904. Paints or antifouling compositions for ships are prepared with residues from the distillation of petroleum.

464. Shah, M K.—24 May 1906. Lanterns for night lights or candles. 1.

465. Shah, M. K.—25 May 1906. Night lights. 1.

466. Crawford, A A.—7 Feb. 1906. Electric resistance switch for fans, etc., in railway carriages. 1.

467 Nightingall, V. C J.—5 May 1906. Gas burners with electric controlling and igniting appliances. 1.

468. Kapoor, M. L—17 Aug. 1906. Gold thread making machine for winding wire on a core. 3.

469 Oram, W. C.—Spring catch.

470. Hubbard, A. J & G. & Cross, A W. S.—21 March 1906; UK. 13,039, 23 June 1905. Dew-ponds or reservoirs for collecting dew. 1.

471. Travis, W. O.—5 May 1906; UK. 4980, 9 March 1905. Sewage disposal, settling appliances for. 2.

472. Harrison, P. Y. & Southall, R. H.—7 April 1906; UK. 26,645, 7 Dec. 1904. Boot and shoe detachable heel pieces. 3.

473. Kennedy, W.—19 Dec. 1905; UK. 27,500, 16 Dec. 1904. Tube and rod bending machines, as described in No. 503 of 1904, are modified in form and by addition of worm gearing to adapt them for heaviest work. 1.

474. Innes, J. T.—19 May 1906. Water-heating and feeding appliance for boilers, etc. 1.

475. Harper, N. C. T.—Sodium carbonate.

476. Roberts, D.—19 Feb. 1906; UK. 16,345, 23 July 1904. Locomotives or traction engines and road vehicles laying their own track of endless chains and steering gear therefor. 2.

477. White, E. L.—22 May 1906; UK. 1226, 21 Jan. 1905. Picture post-cards, view books, almanacs, show-cards, etc., containing folded pictures, etc., which are successively exposed by drawing out a slide. 1.

478. Fraser, J., P. & N.—22 May 1906; UK. 664, 13 Jan. 1905. Spinning, presser rollers for drawing and like frames are made of wooden layers and a leather ring built up of segments or strips. 1.

479. Godrej, P. B.—Safes.

480. Doeg, S. S.—Bib cock.

481. Clarke, Chapman & Co. & Woodeson, W. A.—24 Jan. 1906; UK. 28,383, 24 Dec. 1903 Steam boilers with upper and lower steam and water drums, connected by staggered nests of approximately vertical tubes 4.

482. Erste Triester Reisschal Fabriks, A. G.—8 Dec 1905. Sizing or finishing media are prepared from rice or other materials containing gum and starch by steaming and then adding alkali and organic acid, such as ammonium carbonate and lactic acid.

483. Sadasukh Shriram.—7 July 1906 Tanas winding or warping machine of the horizontal skeleton drum type with automatic movement of thread guide and stop for drum. 3.

484. Howard, A. H.—Cement.

485. Fraser, J., P. & N.—22 May 1906; UK. 16,342, 11 Aug 1905. Pulleys with arms cast in hub and bent for rim to be riveted thereto. 1.

486. Cutmore, A. & Telaupad Syndicate, Ld - 8 June 1906· UK 17,302, 26 Aug. 1905. Telephone transmitters, special form of mouthpiece for. 1.

487. Nash, J. G.—22 May 1906. Indicating number or changes of numbers simultaneously with the action of a press for marking or embossing tickets by an arrangement of ratchet and link gearing. 1.

488. Duggan, A. B.—19 Feb. 1906. Tyre-compressing apparatus with presser blocks forced inwardly by wedges or revolving ring 1.

489. Watson, J.—17 July 1906. Tonga with special form of pole attachment to axle and adjustable mountings for varying the inclination of the pole and the balance of the springs. 4.

490. Owen, R H.—13 March 1906; UK. 16,558, 15 Aug. 1905. Range and altitude finders in which angular displacement of sighting mirror is measured when the instrument is carried to the end of a known base line. 2.

491. Sayed Sardar Ali Shah.—Oil mill.

492. Bond, L. A.—4 June 1906. Textile fabrics, rope, etc., of hemp, jute, etc., are waterproofed by saturating them with asphalt after which a drying powder of soapstone or siliceous matter may be applied and the material polished. Apparatus consisting of a heated tank, immersing, squeezing and polishing rollers is described. 1.

493. Jost, C.—18 Jan. 1906. Ventilating fan driven by heat engine. 2.

494 Mellor, G W. (executor of Mayhew, G. S.).—19 Dec. 1905; UK. 28,810, 31 Dec. 1903. Compo board. 2.

495. Mellor, G. W. (executor of Mayhew, G. S.).—19 Dec. 1905; UK. 2292, 29 Jan. 1904. Wood sawing and planing machinery specially adapted for making thin sheets or boards. 3.

496. Mellor, G. W. (executor of Mayhew, G. S.).—19 Dec. 1905; UK. 5311, 3 March 1904. Compo board, machinery for making. 3.

497. Mellor, G. W. (executor of Mayhew, G. S.).—19 Dec. 1905; UK. 28,032, 21 Dec. 1904. Compound deals or blocks are produced by pressing together pieces of wood treated with glue, etc. 4.

498. Mellor, G. W. (executor of Mayhew, G. S.).—Building slabs.

499. Mellor, G. W. (executor of Mayhew, G. S.).—Veneer.

500. Andrews, E. S.—9 Jan. 1906. Glazed folding ventilator for closed road vehicles. 1.

501. Stuart, R. W.—1 Aug. 1906. Carburettor for making oil gas and burner. 1.

502. McDonald, C.—24 Jan. 1906. Deck matting for ships carrying horses and cattle.

503. Lamson Paragon Supply Co.—22 Dec. 1905; UK. 17,807, 2 Sept. 1905. Paper creasing, severing, and delivery mechanism for printing and like machines. 2.

504. Hermann, M., and Lorenz, L.—18 June 1906; UK. 26,103, 30 Nov. 1904. Burner for incandescent and other oil lamps. 1.

505. Lemon, W. S.—14 June 1906. Buoys with dynamos driven by screws or paddles for electrically lighting them. 1.

506. Haribhoy Dhanji Mistri.—7 July 1906 Lubricating the connecting rod of Macarthy cotton gins Improvements on 278 of 1905. 1.

507. Mordey, W. M. & Fricker, G. C.—9 Mar. 1906; UK. 15,704, 14 July 1904. Electricity meter of the electrolytic type; an anode strip of uniform cross section is fed into the electrolyte by prepayment mechanism or otherwise. 1.

508. Lock, W. H.—3 July 1906; UK. 13,938, 6 July 1905. Casting curved stereotypes in a hand operated machine 8.

509. Dalziel, J.—8 June 1906, UK. 22,758, 21 Oct. 1903. Electric lighting system for railways, etc., vehicles with arrangements for generating the current and regulating the voltage. 1

510. George Hettersley & Sons, Ld., & Chadwick, J.—8 June 1906; UK. 7452, 8 April 1905. Looms for small or narrow work. 8.

511. White, G. W. J.—7 Sept. 1906. Feed water heated by exhaust steam from locomotives and other engines. 2.

512. Bellingham, S. R.—10 Jan. 1906. Animal feed boxes. 1.

513. Cummins, W. T.—30 May 1906. Turnstile with number recording attachment for latrines, etc. 1

514. Maddox, Miss I.—8 Mar. 1906 Razor strop adapted to hold razors and other shaving requisites. 2.

515. Beale, F.—19 June 1906; UK. 22,607, 4 Nov. 1905. Time and percussion fuzes for projectiles. 1.

516. Mistri Allah Ditta & Miran Bux.—27 March 1906. Hockey sticks are bent in heated water in a screw press 1.

517. Ghodke, S. S.—1 June 1906. Lamps for burning castor oil. Improvements on No. 83 of 1895. 2.

518. Cantwell, E. L.

519. Robertson, D.—8 June 1906; UK. 29,462, 31 Dec. 1904. Post marking machines with driving, feeding, separating, rotary printing and stacking devices. 4.

520. Deacon, J. M.—5 Jan. 1906; UK. 16,481, 14 Aug. 1905. Shirts with special arrangement of front. 1.

521. Cresswell, G. B.

522. Kohler, F.

523. Maynard, E.—5 June 1906; UK. 28,571, 29 Dec. 1903. Liquids such as serum, milk and other medical, surgical and dietetic preparations are decanted into special receptacles without exposure to risk of contamination. 1.

524. Poulsen, V.—24 Jan. 1906, UK. 18,037, 6 Sept. 1905. Wireless telegraphy receiving system containing a condenser of variable capacity. 2

525. Bowring, J. C.—31 Jan. 1906. Steam boiler and other furnace grates with hollow and conical rocking firebars. 1.

526. Kitson, A.—19 June 1906; UK. 18,844, 18 Sept. 1905. Incandescent oil vapour lamps. 1.

527. Maaskant, C.—8 June 1906. Railway wagon door fastenings with electrical means for opening. 2.

528. Arcanum, Limited.—19 Feb 1906; UK 10,466, 18 May 1905 Aerating liquids and delivering them mixed with measured quantities of alcohol, syrup, etc. 7.

529. Johnson, A. L.—27 Feb. 1906; UK. 21,297, 4 Oct. 1904 Corrugated bars specially applicable for armoured concrete. 1.

530. Gacon, A.—21 March 1906; UK. 23,492, 31 Oct. 1904. Artificial emery prepared from bauxite.

531. Bryant, C H. & Watling, A.—27 Feb. 1906; UK. 20,899, 28 Sept. 1904. Carburettors for oil engines using heavy oils. 2.

532. Hunter, T.

533. Kharegat, M. R.—2 April 1906. Automatic pivoted and counterbalanced sluice shutter. 1.

534. Mahomed Abdul Kuddus.—2 Feb. 1906. Curtains or screens constructed with mica. 1.

535. Lord, H. E.—24 Jan. 1906; UK. 24,212, 9 Nov. 1904. Axles and axle boxes with oil bath for railway and tramway vehicles. 1.

536. Esser, J. W. & Barratt, G. W. & F.—14 July 1906; UK. 19,336, 25 Sept. 1905. Breech actions for single shot and magazine guns and rifles. 2.

537. Ferranti, S. Z. de.—8 June 1906; UK. 11,558, 19 May 1904. Spinning, doubling and twisting machine details. 7.

538. Temperley, J. R. & J. & Alexander, W.—27 June 1906; UK. 26,298, 2 Dec. 1904. Hoisting and transporting appliances. 2.

539. Saunders, S.—8 June 1906; UK. 24,479, 11 Nov. 1903. Wind motors with feathering or revolving vanes carried by trucks or boats moving in a circular path. 1.

540. Farlow, F. F.

541. Ryan, H. T.

542. Verma, S. N. & Jagat Narayan.

543. Lavertine, A. G. & McNellan, J. E.—16 July 1906; UK. 3598, 21 Feb. 1905. Air cartridge arrangement for inflating rubber tyres of bicycles, motor cars, etc. 1.

544. Witschi A G. fur Herstellung enfenchteter.

545. Chhatre B. C.—7 July 1906. Fibre extracting machines. 1.

546. Sultanaly, A. H. & Dotivalla, D. E.—7 July 1906. Cotton gin with separate bracket for carrying belt reducing gear. 1.

547. Prior, M.

548. Slater, J. G., Junor, W. & Watson, T. H.—28 Aug. 1906. Process for extracting gold and silver from ores, etc.

549. Société Anonyme, Matthey & Co.—5 May 1906; UK. 18,920, 1 Sept. 1904. Insulating and non-conducting composition.

550. Gwyther, F. W.

551. Mellor, G. W. (executor of Mayhew, G. S.).—25 Jan. 1906; UK. 17,603, 12 Aug. 1904. Fire-proof wooden cored plaster slab for buildings, etc. 2.

552. Wellor, G. W. (executor of Mayhew, G. S.).—1 Feb. 1906; UK. 17,602, 12 Aug. 1904. Cutting continuous veneer sheets from logs. 1.

553. Jussawalla, K. S.—14 Aug. 1906. Floating water-current motor and water lift. 3.

554. Shome, H. S. & Banerjee, A. K.

555. Hofmann, H.—17 April 1906. Roofs with hollow ceiling tiles or slabs. 1.

556. Connor, J. & Mrs E. M.—13 Feb. 1906. Purses. 1.

557. Laljee, H. S. & Kanga, D. L.

558. Gregg, E. & Hirst, T. H.—25 July 1906; UK. 23,233, 23 Dec. 1903. Spring tyres for motor cars, etc. 1.

559. Crittall, F. H.—1 Aug. 1906; UK. 21,083, 17 Oct. 1905 Expanded metal manufacture. 3.

560. Butler, H. M.—29 May 1906; UK. 8496, 20 April 1905. Axles for road vehicles. See also No. 143 of 1905. 2.

561. Actien Gessellschaft fur Mechanische Holzbearbeitung.—25 July 1906; UK. 16,432, 12 Aug. 1905. Glue manufacture.

562. French, G. F. & Pinch, W. H.—25 July 1906; UK. 5601, 17 March 1905. Pleating and hanging curtains. 1.

563. Walker, J. J.—16 Nov. 1906. Recording music for automatic reproduction with expression. 1.

564. Lawrence, S. S.—29 May 1906; UK. 8275, 18 April 1905. Dust and glare protectors or goggles for personal wear. 1.

565. Vassel, B.—14 Feb. 1906. Magnesium composition for floorings, etc.

566. Simpson, J., Oliver, M. J. & Robertson, W.—2 Feb. 1906; UK. 10,940, 12 May 1904. Steam disinfecting apparatus. 1.

567. Brandt, H. O.—1 Feb. 1906; UK. 28,213, 23 Dec. 1904. Spraying oily materials for laying dust on roads, in mines, etc. 1.

568. Bishambar Nath.—14 Nov. 1906. Oil-lamp. 1.

569. Bishambar Nath.—14 Nov. 1906. Bed warmer and portable stove. 1.

570. Bishambar Nath.—14 Nov. 1906. Water-heater. 1.

571. Strom, H.—10 Feb. 1906. Folding suspension cradle for infants. 1.

572. Campbell, G. P.—9 March 1906; UK. 19,684, 13 Sept. 1904. Hollow cement or concrete block-making machinery. 3.

573. Patterson, J. H.—13 Feb. 1906; UK. 3971, 17 Feb. 1904. Gun, rifle or carbine holder for use on foot or horseback. 1.

574. Patterson, J. H.—13 Feb. 1906; UK. 13,840, 18 June 1904. Belt or bandolier attachment for carrying cartridges. 1.

575. Brown, G. S.

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579. Société Anonyme Westinghouse and Leblanc, M.—4 July 1906. Ejectors for use with the water-cooling system described in No. 168 of 1904. 2.

580. Reid, W. R.—4 July 1906. Cleaning wheat by adding slaked lime, scouring and air separation.

581. Angus, A. R.—4 July 1906; UK. 22,776, 7 Nov. 1905. Railway vehicles with divided axles. 2.

582. Dubern, G.—15 March 1906. Microscopes. 1.

583. Mirza Mahomed Ali Khan.—28 July 1906. Chaff cutters with automatic feed. 1.

584. Gredt, P.—21 Sept. 1906; UK. 17,178, 24 Aug. 1905. Iron and steel manufacture in an electric induction furnace. 3.

585. Marine Construction Co.—21 Mar. 1906; UK. 23,545, 1 Nov. 1904. Sand-blast apparatus for cleaning metal, etc., surfaces. 1.

586. Gunning, J.—13 Feb. 1906; UK 29,281, 31 Dec. 1904. Electric time switches. 1.

1906.

1. Freeman, G. H. H.—Internal combustion engines.

2. Mather, Sir W.—Vegetable fibre

3. Wagner, B.—1 Aug. 1906; UK. 241, 5 Jan. 1905. Fuel briquettes are waterproofed by coking in a continuous furnace of the revolving drum type through which they are fed. 1.

4. Wagner, B.—1 Aug. 1906; UK. 351, 7 Jan. 1905. Fuel briquettes are made by mixing heated coal and a binding agent, soluble in water, such as waste lyes from cellulose manufacture.

5. Gill, J.—1 Aug. 1906; UK. 8753, 25 April 1905. Air and gases are compressed in a water circulation apparatus consisting of rising and down pipes, the air being supplied at the top of the latter. 2.

6. Wilson, T. L.—1 Aug. 1906. Combined whistling, bell, and lighting buoys; arrangements for compressing air and operating the whistle and bell and for lighting with acetylene. 2.

7. Klever, F. W.—1 Aug. 1906. Lubricating and anti-corrosive oils, specially for cleaning the bores of small arms, are composed of hydrocarbons, alkaline oleates and alcohols.

8. Boyd, T. A. & J. & T. Boyd, Ld.—20 July 1906; UK. 19,430, 9 Sept. 1904. Spinning ring and traveller. 1.

9 Ward, H. T. S.—28 Aug 1906. Concrete wells, etc., are sunk by first sinking a hollow casing with the aid of a flow of water, then filling concrete into the casing which is subsequently withdrawn. 1.

10. Tarling, T. S.—16 Feb. 1906; UK. 24,003, 7 Nov. 1904. Lamp with automatic extinguishing device. 1.

11. Belanger, V. & Stein, J. J.—16 Feb. 1906; UK. 25,073, 2 Dec. 1905. Spinning ring and traveller. 1.

12. Braun, R.—13 Aug. 1906; UK. 11,821, 6 June 1905. Electricity. Variable loads on alternating current systems of distribution are equalized with the aid of an induction motor having a phase winding connected to slip rings on its secondary member and the primary connected to the supply circuit. 1.

13. Drummond, G. W.—16 Feb. 1906; UK. 9918, 11 May 1905. Locomotive spark arrestor, as described in No. 423 of 1901, with additional stationary baffles. 2.

14. Bradshaw, W. M.—17 July 1906. Electricity. Alternating current motor especially applicable as for measuring instruments. 1.

15. Betts, A. G.—17 July 1906. Electricity Sodium, in the metallic state and protected by a casing, is used for electric conductors. 2.

16. Wakefield, C. C.—13 Aug. 1906; UK. 11,758, 5 June 1905. Acetylene generators and flare lights. 1.

17 Madhowjee, L.—19 Oct. 1906. Clock with special arrangements of figures and hands to indicate various kinds of time. 1.

18. Barry, T. H.—Cigars.

19. Standard Oil Co. of New York.—18 Feb. 1907. Tap for kerosine oil tins, etc. 1.

20. Murray, G. W.—Wire fencing.

21. Braun, R.—20 Aug. 1906; UK. 24,106, 22 Nov. 1905. Single phase commutator electromotors are grouped and supplied with different phases of a polyphase current, and the motors may have additional field windings, to equalise the torque for driving, winding and hoisting engines and other rotating apparatus. 1.

22. Colloseus, H.—4 April 1906; UK. 14,329, 11 July 1905. Blast furnace slag is pulverised by the action of jets of air and liquid thrown from a revolving drum near which the molten slag is directed. 1.

23. Colloseus, H.—4 April 1906; UK. 3619, 21 Feb. 1905. Cement is made from blast furnace slag by adding salts of calcium, aluminium or magnesium during pulverisation, as described in No. 22 of 1906. 1.

24. Lock, W. H. & Sutcliffe, F. W.-18 Aug. 1906; UK. 25,392, 22 Nov. 1904. Linotype machine arranged for casting linotypes of different lengths from the same composed line of matrices and space bars. 7.

25. Smith, T. F.-1 Aug. 1906; UK. 11,000, 26 May 1905. Humidifying attachment for looms, applicable for other purposes, consisting of a brush revolving in a water trough. 2.

26. Aivaz, J. & Kurkiewicz, H.—1 Aug. 1906; UK. 17,239, 6 Aug. 1904. Cigarette making machine for filling ready-made paper tubes with tobacco. 11.

27. Webster, R. W.—5 Feb. 1907; UK. 29,341, 31 Dec. 1904. Cotton-ginning and wool-burring machines with improved seed cleaner, adjustable knife oscillator and comb, and roller. 1.

28. Webster, R. W.—1 Aug. 1906; UK. 8893, 27 April 1905. Cotton-ginning and wool-burring machines with the rollers and other parts inclined to the horizontal to facilitate clearing. 2.

29. Killen, E. B.—1 Aug. 1906; UK. 24,322, 10 Nov. 1903. Pneumatic tyres with enlarged and renewable treads. 1.

30. Majumder, A. K.—24 Aug. 1906. Wood substitute, specially applicable for pencils and penholders, is made by impregnating paper with metallic oleates, paraffin, stearic acid and wax. The oleates are described in No. 154 of 1905.

31. Sparling, A. H.—28 Aug. 1906 Trunk or portmanteau lock of tumbler type with stop for tumblers, extended face plate and independent hasps. 1.

32. Samuel, M. & Farquhar, J. F. C.—Oil lamps.

33. Samuel, M. & Farquhar, J. F. C —Oil lamps.

34. De Hymel, F. O., Polk, L., Neal, M M. & Cocke, F.—16 Nov. 1906; UK. 27,178, 29 Dec. 1905. Pumping machine. 2.

35. Buhue, F. W.—7 Sept. 1906; UK. 12,089, 27 May 1904. Pipe joints are made with lead or other metal wire or thread which is forced into the joint. 1.

36. Rothera, P.—Railway points and signals.

37. Das, Bonkim Lal.—Hand-loom.

38. Gill, H.—25 Oct. 1906. Rope driving pulleys with grooved wooden rim and metal body. 1.

39. Mangrulkar, G. R.—Matches.

40. Smith, C. C. & O'Callaghan, H.—Steam generator furnace.

41. Dennett, R. J.—Railway signals are operated by wires, kept in tension, to which a release and pull motion has to be given to work them. 4.

1906.

1. Freeman, G. H. H.—Internal combustion engines.

2. Mather, Sir W.—Vegetable fibre

3. Wagner, B.—1 Aug. 1906; UK. 241, 5 Jan. 1905. Fuel briquettes are waterproofed by coking in a continuous furnace of the revolving drum type through which they are fed. 1.

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8. Boyd, T. A. & J. & T. Boyd, Ld.—20 July 1906; UK. 19,430, 9 Sept. 1904. Spinning ring and traveller. 1.

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14. Bradshaw, W. M.—17 July 1906. Electricity. Alternating current motor especially applicable as for measuring instruments. 1.

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17 Madhowjee, L.—19 Oct. 1906. Clock with special arrangements of figures and hands to indicate various kinds of time. 1.

18. Barry, T. H.—Cigars.

19. Standard Oil Co. of New York.—18 Feb. 1907. Tap for kerosine oil tins, etc. 1.

61. Gwyther, F. W. & Herbert, H. W.—Lock for railway carriages.

62. Payne, E. G.—24 March 1906. Wheeled bier with detachable stretcher specially adapted for use by Parsees. 1.

63. Cosserat, W. A. P.—21 Sept. 1906. Railway signals are operated by wires, kept in tension, to which successive release and pull motions have to be given. 1.

64. York, J. E.—19 May 1906; UK. 27,711, 19 Dec. 1904. H-sections with wide flanges are made by rolling the metal transversely of the length between one roll and a flat bed in which the sections are held. Old rails may thus be converted into H-section sleepers. 2.

65. Boggiano, E.—19 March 1906; UK. 26,922, 23 Dec. 1905. Voting machine with counting apparatus operated by a token dropped into one of a series of slots. 1.

66. Rostron, J. & Worman, T.—17 Nov. 1906; UK. 1625, 27 Jan. 1905. Looms. Automatic weft replenishing device for looms in which a fresh shuttle is introduced from a magazine and the old one expelled by mechanism worked from the slay when the exhausted cop is pressed sufficiently forward in the shuttle by a spring. 5.

67. Deys, P.—Electric belt.

68. Tice, W.—9 June 1906. Self-registering and locking turnstile for septic tank latrines, etc., with a nut carrying a pointer traversed by a screw driven by gearing from the turnstile up to an adjustable stop 1.

69. Cox, T. S.—Martingale, etc.

70. Hosking, F. & Curnow, A.—20 July 1906 Automatic feed for ore stamps with revolving bottom of the hopper driven by friction ratchet and lever gear from tappet on stamp stem. 1.

71. Gioberti, V.—Dynamo.

72. Wheatley, W. G.—19 Sept. 1906. Railway signalling on the key or tablet block system is safeguarded by additional tokens, suitably shaped, marked or coloured for up and down directions, which are attached to the keys, etc., before the trains leave. 2.

73. Primat, J. A.—15 Sept. 1906; UK. 22,448, 18 Oct. 1904 Internal combustion, steam or compressed air engine with four connected pistons, working in four curved cylinders and driving a crank shaft through a connecting rod. 2.

74. Snodgrass, J.—24 Aug. 1906. Electrolytic apparatus for extracting gold from cyanide solutions. The solution is passed slowly through porous electrodes of which the cathode consists of cloths treated to render it a conductor. 2.

75. Wheatley, W. G.—19 Sept. 1906. Railway points and signals. The additional voucher tokens used as described in No. 72 of 1906 with key or tablet block systems, are also utilised as keys to unlock the necessary points and signal levers before issue. 4.

76. Dhondy, S. C.—Bricks.

77. Stokes, H.—26 March 1906; UK. 3049, 14 Feb. 1905. Combined electric coupling and two way plug. 1.

78. Middleton, W. & Cobbe, H. N. G.—25 Aug. 1906; UK. 22,727, 6 Nov. 1905. Shoes and dies of grinding pans with grooves and passages for fixing them and for flow of material. 2.

79. Wood, W. H.—25 Aug. 1906. Railway vehicle brakes applied, locked and released from either side. 4.

80. Michael's Composite Sleepers, Ld.—Railway sleepers.

81. Wagenhort, J. H.—28 Aug. 1906. Elastic fluid turbine blades are secured by one or more strips threaded through the blades and distorted or displaced between them. 1.

82. Arnold, E. E.—28 Aug. 1906. Elastic fluid turbine blades are secured by a strip of rectangular or other section threaded through the blades and twisted or distorted between them. 1.

83. Arnold, E. E.—28 Aug. 1906. Elastic fluid turbine blades are secured by two strips or wires threaded through the blades and twisted or turned between them. 1.

84. Sweet, C. E.—28 Aug. 1906.—Elastic fluid blades are secured by a strip threaded through the blades and having partly cut or sheared portions which are bent to form spacing projections 1.

85. Gobbi, E.—28 Aug. 1906; UK. 83, 1 Jan. 1906. Filter consisting of superposed non-permeable members, such as cup-shaped washers, rings, etc., which can be pressed together or separated sufficiently to retain or release solid matters. 8.

86. S. Mestitz & Son.- 28 Aug. 1906.—Pneumatic dust removing apparatus with crank driven bellows and air washer or filter. 6.

87. Mylius, C H. von & Mylius, T. P von.- -18 May 1906 Smoke consuming furnace for steam boilers, etc , with refractory incandescent chamber to which air and steam or water are supplied. 1.

88. Ghatak, L —29 Oct. 1906. Yellow alloy of copper, aluminium and gold prepared with the aid of specified fluxes and refining agents.

89. Burrowes, A. R.—11 Sept. 1906; UK. 2224, 4 Feb. 1905. Combined valise and bivouac tent. 2.

90. Whitelegg, R. H.- Locomotive.

91. Duffy, J.—25 Aug. 1906; UK. 3419, 18 Feb. 1905. Wood paving blocks consisting of sections bonded by bars in inclined saw cuts. 1.

92. Hartridge, W. B —28 May 1906; UK 2870, 11 Feb. 1905. Wheels and tyres for motor buses, etc , with separate rubber blocks individually adjustable for wear especially by transfer to recesses of diminishing depth in the tyre. 11.

93. Swan, P. S & Fraser, N.—28 March 1906; UK. 12,706, 20 June 1905. Measuring and cutting cloth, etc. 5.

94 Rossenrode, J H.—11 June 1906 Gaiters with bar fitting in socket at bottom and key-hole slot fastening at top where a strap and buckle completes the fastening 2.

95. Khan, R. D.—Rice hulling

96. Kenna, P. A.—14 Sept. 1906. Tobacco pipe with moisture-arresting chamber in stem. 1.

97. Golding, J. F.—17 April 1906; UK. 14,796, 18 July 1905. Armoured concrete with grooved bars and connecting members forming an open work fabric. 5.

98. Asa Lees & Co., Ld , Taylor, R. & Clegg, R.—7 Sept. 1906; UK. 28,507, 28 Dec. 1904. Spinning. Metal carriages for self-acting mules and twiners built of sheet metal sections and couplings for them. 1.

99. Dhanjibhoy, C.—7 Sept. 1906. Tonga with fittings for carrying two ambulance stretchers, complete awning in two parts and spring yoke. Improvements on Nos. 180 of 1898 and 256 of 1900. 2.

100. **Aptekman, L.**—11 April 1906; UK. 18,743, 16 Sept. 1905. Tobacco cutting machine with travelling table, feed rollers and reciprocating knife. 3.

101. **Smallwood, A.**—Furnaces.

102. **Middleton, G.**—12 June 1906; UK. 21,114, 21 Dec. 1905. Spring wheels with pneumatic tubes for motor cars, etc. 5.

103. **Blanchard, A., Wood, H. & Burgoyne, E. A. H.**—11 April 1906; UK. 16,661, 28 July 1904. Inverted flame incandescent oil vapour burners. 1.

104. **Pearson Fire Alarm, Ld.**—28 May 1906; UK. 26,475, 5 Dec. 1904. Electric fire alarm in which the circuit is completed by the expansion of a thermal strip. 1.

105. **United Kingdom Self adjusting Antifriction Metallic Packing Syndicate, Ld., & Bell, A R.**—28 May 1906; UK. 13,066, 24 June 1905. Combined displacement and siphon or needle lubricator for locomotives, etc., arranged to supply lubricant when pressure is on or off. 2.

106. **Phillips, W.**—18 March 1907; UK. 8443, 7 April 1906. Spinning. Conductors are arranged to remove static electricity.

107. **Cosserat, W. A. P.**—12 Oct. 1906. Railway signalling. Two signal arms are controlled and locked by a triple lever device 1.

108. **Wheatley, W. G.**—19 Sept. 1906. Railway signalling A detector apparatus on the train is provided to receive only the suitably shaped token for the correct direction. 3.

109. **Arbuthnot, M.**—20 July 1906. Road vehicle construction with trussed frames and built up naves for wheels 2.

110. **Hodgkinson, J.**—7 Sept. 1906. Cotton ginning machine with conveyor for feeding cotton from the hopper to the rollers. 1.

111. **Ebrahim, Abdul Rozak Moulvi, Alishaik Bidree, and Mohamed Ishaq Bidree.**—Warping

112. **Mayes, R. F.**—9 Oct 1906 Railway vehicle brakes with locking and releasing gear for the pawls and racks and with means for keeping the lever handles horizontal. 3.

113. **Electric Accumulator Co , Ld.**—7 Sept. 1906; UK. 25,902, 28 Nov. 1904. Electric secondary batteries; ground hair, wool or the like is mixed with the active material

114 **Enrietti & Co.**—Motor

115. **Oakley, L. J. O.**—9 Oct. 1906. Polo nose-band with doubled straps attached to the martingale. 2.

116. **Stendebach, K. F. P.**—20 June 1906; UK. 25,885, 12 Dec. 1905. Firearms of the drop-down barrel type with arrangement of pivots above the bore axes and with modified breach action 1.

117. **Hartridge, W. B.**—28 May 1906; UK. 3043, 14 Feb. 1905. Wheels with adjustable or removable and sectional flanges which are altered to expose the rubber tyres as it wears. Improvements on No. 92 of 1906 6.

118. **George Hattersley & Sons, Ld., & Perks, T.**—7 Sept. 1906; UK. 8939, 28 April 1905. Warp stop motions for looms. 9.

119. **Wheatley, W. G.**—19 Sept. 1906. Railway signalling on the block system. The tokens such as are used in Nos. 72, 75 and 108 of 1906 are of alternate colours for up and down at each section. 1

120. **Davison, W. M.**—7 Sept. 1906. Measuring valve appliance and recording apparatus for sale of liquids. 2.

121. Davison, W. M.—7 Sept. 1906. Measuring pump appliance and recording apparatus for sale of liquids. 2.

122. Judge, C. G. L.—9 Oct. 1906. Tea leaf is treated in centrifugal apparatus, consisting of a revolving unperforated drum to aid in, or replace, the present " withering " processes. Reference is made to No. 319 of 1892. 2.

123. Dalton, T.—Magnetic separator.

124. Kartar Singh.—12 Oct. 1906. Phosphorus preparation for killing rats.

125. Subba Rao, C. K.—Water lift.

126. Marconi's Wireless Telegraph Co , Ld.—7 Sept. 1906; UK. 14,788, 18 July 1905. Wireless telegraphy. The transmitting and receiving antennæ are placed substantially horizontal in a vertical plane connecting the two stations. The direction of signalling is thus controlled and identified. 1.

127. Goodwin, J. M.—7 Sept. 1906. Railway trucks with drop bottoms, construction of doors and their hinges and locks. 1.

128. Goodwin, J. M.—7 Sept. 1906 Railway trucks with drop bottoms, construction of the discharging shoots 3.

129. Goodwin, J. M.—7 Sept. 1906. Railway trucks with drop bottoms, construction of the body bolsters. 2.

130. Goodwin, J. M.—7 Sept. 1906. Railway trucks with drop bottoms, construction of the side girders and bulk heads 2.

131. Goodwin, J. M.—7 Sept. 1906 Railway vehicle buffer plates. 1.

132. Goodwin, J. M.—7 Sept. 1906 Railway trucks with drop bottoms, construction of bodies. 3.

133 Goodwin, J. M.—7 Sept. 1906 Railway trucks with drop bottoms which are released by fluid pressure and valve mechanism that may be worked from the brake system. 1.

134. Goodwin, J. M.—7 Sept. 1906. Railway trucks with drop bottoms, construction of truck bolsters. 3.

135 Goodwin, J. M —7 Sept. 1906. Railway trucks with drop bottoms, construction of hopper bottoms. 6

136. Witfield, C.—7 Sept. 1906; UK. 9608, 27 April 1904. Gas producers of the suction type with means for controlling and equalizing the flow of gas from and the supply of air and steam to the fuel chamber. 3.

137. Cameron, W. & F.—19 Oct. 1906. Looms. Shuttles for weaving jute fabrics are cast in aluminium in one piece 1.

138. Zaretzky, W.—25 April 1906; UK. 18,907, 19 Sept. 1905. Grain, rice, etc., is graded in apparatus consisting of inclined revolving rollers, provided with means for adjustment, feed and discharge. 2.

139. Janssens, A.—11 June 1906. Spring wheel with elastic rim connected by sliding non-elastic connections to an inner rigid wheel. 6.

140. Ore Concentration Co. (1905), Ld —25 April 1906; UK. 17,816, 16 Aug. 1904. Ore separation processes, of the oil and other flotation systems, are conducted under reduced pressure. 1.

141. Bengal Rhea Syndicate, Ld , & Whitehead, H. E.—7 Sept. 1906. Fibre cleaning machine in which fibre is drawn through slots in a fixed and a reciprocating plate. 1.

142. Pirrie, N.—24 Nov. 1906. Furnaces. Mechanical stokers with wire rope working over grooved rollers and ash discharging bars at end. 1.

143. Farlow, F. F.—23 Oct. 1906. Fire alarms. Fusible wires in the ship, building, etc., are connected to valves which liberate water to sound an alarm. 1.

144. Reichenbach, H. M.—26 April 1906; UK. 1759, 23 Jan. 1906. Combined oil storage tank and carburettor for oil engines of motor cars, etc. 3.

145. Duryea, O. C. & White, M. C.—7 Sept. 1906; UK. 3916, 16 Feb. 1906. Fuel and lubricant supply, and carburettor for oil engines for motor cars, etc., specially shown as applied to a percussive rock drill. 2.

146. Duryea, O. C. & White, M. C.—7 Sept 1906; UK. 3915, 16 Feb. 1906. Rock drills, power hammers and other machines constructed as free piston, gas or vapour engines. 2.

147. Kershaw, A. G. and Saxby & Farmer, Ld.—7 Sept. 1906. Railway signalling. Improvements on No. 434 of 1900 for preventing tampering with the instruments used to hold the balls or tokens on single line railways. 6.

148. Kleine, J. F.—7 Sept. 1906. Fire resisting floor of masonry and cement strengthened with metal rods or wires. 2.

149. Cameron, W. & F.—19 Oct. 1906. Looms. Corrugated aluminium shuttle cover for weaving jute, etc 1.

150. Turner, H. G.—Plaster.

151. Lambert, W. A.—22 Oct. 1906. Punkah with combined reciprocating and rotary motion. 1.

152. Bonkim Lall Das.—5 March 1907. Loom with automatic shedding, picking and taking up motions, all worked from the lay. 1.

153. Bryant, H. B.—20 June 1906. Camp oven with double bottom and fitted with grids. 1.

154. Riley, V. W. & Rewing, H. W.—4 May 1906; UK 5553, 16 March 1905. Electric arc-lamps. Feeding mechanism for solenoid operated clutch types. 1

155 Nissim, L.—4 May 1906; UK. 26,116, 1 Dec 1904. Oil lamps and stove with special arrangement of wicks, tubes and burners. 2.

156. Gunmaker, G. H.—Lamps.

157. Dickson, R. C.—7 Sept. 1906. Tea, etc., polishing apparatus, consisting of a pan revolving about two axes. 1

158. Globe Rotary Engine Co.—16 Nov. 1906. Rotary engines of the annular chamber type with positively operated vanes. 4.

159. Kuzel, H.—7 Sept. 1906; UK. 28,154, 22 Dec. 1904. Electric incandescent lamp metallic filaments, rods, etc., are produced from the metals in the colloidal state, with or without admixture, drying and heating intensely.

160. Kuzel, H.—7 Sept. 1906; UK. 15,462, 27 July 1905. Electric incandescent lamp filaments, etc., are connected to the leading in wires by applying metal in the colloidal state, drying and heating.

161. Kuzel, H.—7 Sept 1906. Electric incandescent lamp filaments, etc., prepared and attached by modifications of the processes described in Nos. 159 and 160 of 1906.

162. Kuzel, H.—7 Sept. 1906 Electric incandescent carbon or other filaments, etc., are connected to the wires with the aid of carbides of various metals or their solid solutions.

163 Willson, T. H.—7 Sept. 1906. Bell buoy with enclosed striking mechanism. 1.

164. Manly, C. M.—27 Nov. 1906; UK. 18,342, 11 Sept. 1905. Speed transmitting gear consisting of pump and motor, with relatively adjustable capacities connected to the driver and driven parts. 3.

165. Bowman, E. D.—India-rubber.

166. Dutton, S. T.—12 Jan. 1907. Railway points and signals are controlled with the aid of token keys in conjunction with the lever frames, etc. 3.

167. Rice, T. G.—7 July 1906. Vermin such as rats, etc., are destroyed or their burrows fumigated with apparatus consisting of a bellows, smoke producing grate, and flexible hose. 1.

168. Fraser, S. B.—30 Oct. 1906. Steam generator furnaces with forced draught induced by multiple steam jet. 1.

169. Rogers, A. B. C.—11 May 1906; UK. 4693, 7 Mar. 1905. Heat insulation coverings consisting of one or more layers of linseed oil and mica or of mica alone.

170. Gouldie, J.—16 May 1906; UK. 13,046, 24 June 1905. Railway vehicle brakes applied from either side through levers and cam gearing. 1.

171. Hartridge, W. B.—28 May 1906; UK. 7735, 11 April 1905. India-rubber blocks, etc., used in wheel tyres are renewed for wear by vulcanising on fresh thicknesses of rubber. 2

172. Nosworthy, W. H. & Prescott, S J.—28 May 1906; UK. 18,534, 26 Aug. 1904. Bottle with ball stopper and locking device for preventing fraudulent refilling. 3.

173. Laine, E.—11 May 1906. Clock and watch dial faces marked for 12 and 24 hours, night, day and points of compass, etc. 1.

174. Shigley, C. C—11 May 1906; UK. 21,915, 11 Oct 1904. Phonograph with magazine holder for records and means for presenting any desired records 4.

175. Blair, R. F.—7 Sept 1906 Knitting machine of the circular hosiery type for wide tubular fabrics 2

176 Brown, F. J.– Rifle range markers.

177 Badische Anilin & Soda Fabrik.—8 Nov. 1906; UK. 1954, 25 Jan 1905. Indigo paste used for dyeing in the fermentation vat. Improvement on No 527 of 1904 by addition of fermenting material

178. Jackson, W.—8 Nov. 1906; UK. 3129, 8 Feb. 1906. Drying tea, etc. The breast plate of the feed is given reciprocating and vertical movements to prevent caking of the leaves. 1

179. Jackson, W.—8 Nov. 1906; UK. 2257, 29 Jan 1906. Drying tea, etc., tabular stove for heating air for 2.

180. Ram Nath.—19 Dec. 1906. Photographic printing process for reproducing tracings in blue black lines on a white ground A blue print, coated with black varnish, and washed is used to prepare the final print by the same process. 1.

181 Smallwood, A.—14 June 1906; UK. 1855, 31 Jan. 1905. Steam boiler furnaces with refractory combustion chamber 4.

182. Shelly, T. P.—Nuts and washers

183. Bowditch, N—14 Sept. 1906. Cotton picking and harvesting machine with a number of spiral revolving pickers which are protruded and withdrawn into the collecting drums of a wheeled vehicle; or may be used in a hand machine. 9.

184. Pfleumer, F.—14 Sept. 1906. Pneumatic tyres are filled with spongy material containing air or gas under pressure. The sponge may be prepared by agitating gelatine in solution, or other material melting at temperatures below india-rubber, with air or with gas producing agents. 2.

185. **Danby, C. J. & Chambers, J. H.**—28 June 1906. Motor car bodies for hot climates with roller or slat blinds and removable attendant's seat. 4.

186. **Lyon, J.**—13 July 1906. Solid spherical bullets for smooth and choke bore guns, having surface ridges as gas checks and cast in steel discs to cause deformation on impact. 1.

187. Nityalal Chaki.—29 Jan. 1907. Box for holding cigars or cigarettes and matches. 1.

188. **Williamson, J.**—12 May 1906; UK. 7162, 5 April 1905. Packing for stuffing boxes, etc., consisting of vegetable fibre, is tanned with cutch, etc., before use.

189. **Shigley, C. C.**—16 May 1906; UK 3891, 16 Feb 1906. Coin freed magazine phonographs with means for bringing two or more records into action by insertion of a single coin. See also No. 174 of 1906. 6.

190. De Forest Wireless Telegraph Syndicate.- 19 May 1906. Wireless telegraph receivers. The gaseous medium surrounding the electrodes of the sensitive member is put in a condition of molecular activity by heating or otherwise. 2.

191. **Holmes, G. B. & Allen, A. D.** -30 Jan. 1907. Trolley head for electric tramways arranged to fall when it fouls a cross wire, etc. 1.

192. Little, D.—Steam.

193. Gayner, H. B - 3 Aug. 1906; UK. 2534, 1 Feb. 1906. Pneumatic tubes for tyres, and other rubber articles subject to air pressure are coated internally with bird lime.

194. Buck, W. T.—Drains, etc.

195. Bifurcated Rivet Co.—18 May 1906; UK. 3547, 13 Feb 1906 Bifurcated rivet of soft metal with shank or head of harder metal. 1.

196 J. P. Karns Tunnelling Machine Co - 17 Aug 1906; UK. 4940, 28 Feb. 1906. Tunnelling machine with revolving and reciprocating cutter head. 2.

197. Bifurcated Rivet Co.—18 May 1906; UK. 5113, 2 March 1906. Rivets, bifurcated or otherwise, are made of comparatively soft material and the head is subsequently hardened. 1.

198. Mein, W. G. & Gaminara, E. -28 May 1906; UK. 9858, 11 May 1905. Wheel castor for furniture, trucks, trolleys, etc , with ball bearing for the swivelling spindle and parts secured by setting up a dished washer. 1.

199. Holland, C. E.—25 May 1906 Gold, silver and other metals are recovered from waste water from mines, works, etc., by electrolysis and subsequent suitable treatment of the precipitated matters. 1.

200. I. R. Refractory Ore Syndicate.—14 Nov 1906; UK 17,839, 4 Sept. 1905. Pyritic ores are treated for recovery of gold, silver, copper, nickel, cobalt, lead, zinc, etc., by roasting at 800, in the presence of air and steam, leaching with acid liquors produced from the fumes, and suitable treatment of the solution and residues.

201. **Kuzel, H.**—14 Nov. 1906. Electric resistance of metals, especially of filaments, etc., for electric incandescent lamps, is increased by heating to a high temperature in contact with boron, silicon, carbon or their mixtures or decomposable compounds.

202. Laitte, L. B. de.—14 Nov. 1906. Carburettor for light and power purposes. Oil is delivered into a stream of air in small quantities. Air and oil supply are proportioned to the demand for gas by a wet gas meter and holder which control the driving mechanism. The letter may be operated by a weight with an automatic rewinding gear. 4.

203. Nolan, W. P.—14 Nov. 1906; UK. 1054, 19 Jan. 1905. Ticket dating appliance for railway, etc., tickets arranged so that the ticket is inserted face upwards and the date impressed in duplicate from below. 1.

204. Raworth, J. S.—24 Aug. 1906; UK. 14,630, 15 July 1905. Series parallel controller for electrically propelled vehicles. 2.

205. Lalit Chandra.—Spinning machinery with revolving tubes for twisting fibre, thread, etc. 1.

206. Hartridge, W. B.—28 May 1906; UK. 10,613, 20 May 1905. Rubber tyred wheels, with rubber blocks held by lateral pressure in recesses in the rim and adjustable radially for wear. 11

207. Radclyffe, D. E.—8 Aug 1906; UK. 28,792, 29 Dec. 1904. Ramie, rhea, and other fibrous material is softened, prepared and opened by being pressed between a number of pairs of corrugated and plain rollers placed before the gill box. 1.

208. Mennes, W. J.—14 Sept. 1906; UK. 3682, 14 Feb. 1906. The fingers are stretched by a tong like appliance to facilitate pianoforte playing, etc. 1.

209. Karia, J. H.—Cigarette box.

210. Perry, H W —8 Nov. 1906; UK 8619, 22 April 1905. Renewable cap for railway rails. Improvements on No. 370 of 1904. 1.

211. Wagner, F.—1 June 1906. Internal combustion engine with single valve for air and fuel arranged to delay complete mixture to the end of the compression, stroke, and incandescent igniter of soapstone. 1.

212. Boyd, T. A. & J & T. Boyd, Ld.—16 Nov 1906; UK 25,676, 25 Nov. 1904. Spinning. Adjustable attachment of whirl, oil cup, and bobbin or cop driver on the spindle. 1.

213. Boyd, T. A. & J. & T Boyd, Ld —16 Nov 1906; UK. 25,677, 25 Nov. 1904. Two or more cops for winding and warping machinery, which can be unwound from either end, are tied together to form a continuous end as it is drawn off and are combined with a reel. 1

214. Severy, M. L & Sinclair, G. B. -29 Oct. 1906; UK. 4826, 27 Feb. 1906 Musical instruments with strings vibrated by electromagnets supplied with current through special forms of rapid make and break switches. 1.

215. Banwari Lall.—18 June 1906. Sugarcane mill with four vertical geared rollers. 1.

216. Morden, S. H. & Fell, G. P. R.— Railway brake

217. Casoobhoy, D. M.—14 July 1906 Box with attachment for delivering measured quantities of tea, etc 1

218. Forstmann, C.—Saw frame for felling and cutting up timber. 1.

219. Nicholson, H A & Wilson, Mrs. A. E. S.– 22 Oct. 1906. Aqueous solution of sodium chloride and permanganate and lime is used as a food preservative, antiseptic, antidote, etc.

220. Walton, F. J. & Rogers, L. V —8 June 1906; UK 23,043A, 24 Oct. 1904. Timetables, advertisements, etc., are displayed on a series of cards by clockwork mechanism in orderly sequence. 4.

221. Russo, C. & Feinstein, F C.—15 June 1906; UK. 8267, 18 April 1905. Weight recording attachment for cranes, etc., in which the displacement of a solenoid in the spring, etc., weighing appliance varies the current in an ammeter or other indicator. 2.

222. Jamieson, W & Burn, R.—7 Jan. 1907; UK. 22,967, 25 Oct. 1904. Wood working machinery for completely shaping staves for barrels and casks. 7.

223. Lines, A.—11 Dec. 1906. Railway sleepers consisting of reinforced concrete blocks with chairs or clips for securing rails, and tiebars attached to the rails. 3.

224. De Dion, A. & Bouton, G.—Clutch.

225. De Dion, A. & Bouton, G.—Clutch.

226. Mangrulkar, G. R.—4 Dec. 1906. Matches are made from grass splints by treatment with paraffin oil and wax, and with adhesive to secure the head.

227. Artom, A.—10 Aug. 1906; UK. 13,464, 29 June 1905. Wireless telegraph receiver for circularly or elliptically polarized waves. Improvements on No. 170 of 1905. 2.

228. Western Syndicate, Ld.—14 June 1906; UK. 12,661, 19 June 1905 Railway signalling. Danger and safety signals are given on passing trains by a mechanical ramp and by electric circuits in conjunction with the ramp. 3.

229. McCarty, F. J.—3 Sept. 1906; UK. 8324, 6 April 1906. Wireless telephone system. 1.

230. Hari Sakharam Chowan & Karve.—16 July 1906. Water lift or meat with bucket of special form having valve bottom and spout. 1.

231. Madan Lall Kapoor.—10 Dec. 1906. Hand or power looms with automatic shedding, beating, picking, let off, take up, and stop, etc., motions. 5.

232. Hume, J. J. F.—13 Oct. 1906. Entrenching tool consisting of a short handled spade with sharpened edges, frog for carrying it and a rolled sand bag. 1.

233. S. O. & C. Co.—27 Nov. 1906. Eyeletting machine with means for punching stock, feeding grommets and washers, and fixing them in place. 6.

234. Whitaker, A.—27 Nov. 1906; UK. 861, 16 Jan. 1905. Railway signalling. Staff or tablet exchanging apparatus. 4.

235. Joseph, J.—12 Oct. 1906. Chain pump driven by hand crank and gearing. 1.

236. Fischer, A. H. E—27 Nov. 1906. Water jackets for flues, or annular water tubes for heating water, are made with hollow internal ribs. 1.

237. Shaw, E.—12 Dec. 1906; UK. 26,409, 19 Dec. 1905. Evaporating apparatus for sugar, salt, etc., solutions in which the solution is moved as a thin film over the heating surface. Tubular, triple effect, and other apparatus are described. 2.

238. Chunder Nath Bose.—Bangles.

239. Stokes, F. W. S.—12 Oct. 1906; UK. 12,795, 21 June 1905 Sluices with bearings consisting of linked free rollers. 3.

240. Solomon, J. I.—22 June 1906. Oysters are examined in batches or continuously for pearls by exposing them on marked trays or conveyors to X-rays and photographic plates or fluoroscopes. Other material may be similarly examined. 1.

241. Minerals Separation, Ld.—5 Dec. 1906; UK. 17,561, 30 Aug. 1905. Ores are concentrated in the dry way on a rifled shaking table through which air is injected. 4.

242. Thom, T. M.—5 Dec. 1906; UK. 8804, 20 April 1905. Artificial marble and stone is made by submitting blocks or slabs of lime to carbonic acid under a reduced pressure.

243. Sechiari, P.—5 Dec. 1906. Driving belts and coverings for friction wheels are made of one or more layers of canvas, etc., and covered with cork, all cemented by india-rubber or the like. 1.

244. **Vandervell, C. A. & Proctor, W. H. W.**—5 Dec. 1906; UK. 10,748, 10 May 1904. Dynamos. The output is maintained constant in spite of varying speed by revolubly mounting both field and armature, one being driven and the other being normally held fixed by an adjustable breaking device which is released automatically to maintain the relative speed. 2.

245. **Arbuthnot, M.**—20 July 1906. Wheel naves are constructed as metal skeleton with radial and circular members. 1.

246. **Thomson, A. T. M.**—10 Aug. 1906; UK. 21,382, 5 Oct. 1904. Telephone exchange system and apparatus. 17.

247. **Martin, E.**—28 June 1906; UK. 12,832, 21 June 1905. Wheels for vehicles of the disc type for solid or pneumatic tyres. The discs form a compressed air chamber connected to the pneumatic tyre. 1.

248. **British-American Tobacco Co.**—22 Jan. 1907. Cigarette making machine. The tobacco is distributed on two belts, collected into fillers and inserted in tubes, made by a number of formers. Mouthpieces are also made and inserted. 21.

249. **Waters, E G.**—27 Aug. 1906. Almirahs fitted with heating appliances and non-conducting lining for disinfecting and sterilizing their contents. 1.

250. **Maxwell, F. O.**—19 Sept. 1906. Looms. The picking motion is worked from the slay by cord connections between their picker arms and an equalizing lever pivoted on the framework. 1.

251. **Bottomley, W. & J. A.**—21 Sept. 1906; UK. 20,132, 5 Oct. 1905. Warping machine with tension roller in two parts set at an angle with a bearing between them 1

252. **Stetson, W. A.**—5 July 1906; UK 22,350, 1 Nov. 1905. Spinning machinery. Friction drive for spindles and clutch connection between bobbins and spindles. 2.

253. **Lillie, G. E.**—28 Aug. 1907. Railway safety catch points with self-closing spring lock 1.

254. **Gardiner, A.**—15 Aug. 1906; UK. 22,357, 1 Nov. 1905. Railway signals on engines and trains electrically worked from track circuits. 4.

255. **Smith, H. C.**—3 Jan. 1907; UK. 23,379, 14 Nov. 1905. Electric lamps, adjustable cord pendant for. 1.

256. **Cordes, A. W.**—3 Jan. 1907. Cap stopper for bottles with projecting fingers caused to grip the bottle neck by turning a cam ring. 1.

257 **Muffly, S. T.**—3 Jan. 1907. Gold is extracted by a continuous cyanide process in closed stamps and a series of lixiviators in all of which the solution is maintained under air pressure. Fumes from the solution are drawn off and recovered. 1.

258. **Deis, P. H. & Gerstenburg, E.**—3 Jan. 1907; UK. 8319, 6 April 1906. Pumps with hollow plungers and pistons and means for counterbalancing the water column. 2.

259. **Young, O. S.**—Cycle driving gear.

260. **Tice, W.**—17 July 1906. Septic tank installation with grid or grating to break up solid matters passing from the liquefying to the septic chamber. 1.

261 **Walker, J. J.**—4 Jan. 1907; UK. 1895, 31 Jan. 1905. Music playing apparatus for pianos, organs, etc., with means for varying expression, time, etc., using the records described in No 262 of 1906. 1.

262. **Walker, J. J**—4 Jan. 1907; UK. 1895A, 31 Jan. 1905. Music record sheet, etc., for playing pianos, etc., with variously disposed additional slots, projections, etc., for controlling the play. 1.

263. Gilbert, W. V.—14 July 1906; UK. 19,727, 29 Sept. 1905. Spring device consisting of a specially shaped sheet-metal slit tube—applicable as bicycle brake, door spring, clothes peg, etc. 2.

264. Lorenz, C.—15 Dec 1906. Balanced valve in the main steam pipe used as regulator or governor for steam and other engines. 1.

265. Rushworth, L.—31 Jan. 1907. Electricity is discharged from the cotton on carding machinery for a copper or other metal bar attachment. 1.

266. Ferguson, J. A.—4 Jan. 1907. Moulding and pressing machine for cement bricks, blocks, etc. 2.

267. Warsop, T.—12 July 1906; UK. 24,523, 12 Nov. 1904. Rock drill of percussive type with the drill driven by lever, cam and spur gearing from an internal combustion engine. 1.

268. Mayo, C. R.—15 Sept. 1906; UK. 4516, 23 Feb. 1906. Spark arrestors for locomotive with cage and screen made in parts and hinged so as to give access to tubes. 1

269. Cave-Browne-Cave, C B.—8 March 1907; UK. 17,725, 1 Sept. 1905. Pneumatic tyres and rims held on wheels by removable side flanges and security bolts with T-heads. 1.

270. Hoyle, W. H. & Barker, T.—9 Jan. 1907; UK. 18,231, 9 Sept. 1905. Spinning. Broken ends are seized, held and removed by air suction through slotted tubes or nozzles, connected to exhaust and placed below the drawing rollers in mule, ring or other machines. 3.

271. Sandeman, F. D. S.—13 July 1906; UK. 23,191, 11 Nov. 1905. Shearable connection for driving gear of jute, etc , drawing and roving frames with shear pin parallel to shaft. 1.

272. Mistry, M. J. C.—11 Jan. 1907 Road vehicle releasing gear for runaway animals. The shaft hinge pins are held in slotted boxes by levers which can be pulled clear by the driver 1.

273. Godrej, P. B.—Safes.

274. Jones, F R.—3 Sept. 1906 Horizontal stone, self-contained, flour mill driven by animal power. 6.

275. Leslie, A. K.—13 Sept. 1906. Cops are protected from damage by inserting a double or single wire, etc., and bending over the ends or by threading them on wire, etc. 1.

276. Kitson, A—14 Nov 1906; UK 28,459, 27 Dec. 1904. Oil vapour burner with inclined vaporizing tube 1.

277. Neate, P. J—5 Oct. 1906; UK. 29,100, 30 Dec. 1904. Spring wheels for vehicles and cycles in which the stresses are taken by springs acting parallel to the axle 6.

278. Neate, P. J.—5 Oct. 1906; UK. 13,472, 29 June 1905. Springs with two helical or other parts to be loaded at their ends and junction 2.

279. Brignandy, L.—Horse-shoe.

280. Egerton, R. W. & Colquhoun, J. A—14 July 1906. Pantographic apparatus for copying sections of rails, wheel tyres and other prismatic solids. 4.

281. Alexander, A. V.—Range finders.

282. Dowe, A. W.—Padlock.

283. Fox, H. W.—Electric power.

284. Asari, S. M.—Water lift.

285. Coale, H.—9 Jan. 1907. Artificial cork is made from washed granulated cork and a binding agent such as albumen, which may be coagulated by heat, or gelatine hardened by bichromate. A gravity washing appliance is also described. 1.

286. Lock, W. H.—17 Jan. 1907; UK. 27,044, 28 Dec. 1905. Casting curved stereotypes. Improvements on No. 508 of 1905 by the introduction of driving gear and an annunciator to show when the metal is cool enough to turn. 3.

287. Roland, L.—30 Jan. 1907; UK. 10,704, 7 May 1906. India-rubber substitute consisting of glue and gelatine, with glycerine, acted upon by chromic acid or chromates

288 Roland, L.—9 Jan. 1907; UK. 10,705, 7 May 1906. Solid resilient tyres are made of the india-rubber substitute, described in No. 287 of 1906, wrapped with canvas.

289. Jarvis, C. A.—9 Jan. 1907; UK. 23,357, 14 Nov. 1905 Disinfectant is delivered to flushing cisterns by a measuring receptacle having a slotted spindle and pointed lead weight acting as valves. 1

290. Blum, J. R —9 Jan. 1907; UK 22,596, 4 Nov 1905. Pneumatic dust removing apparatus with automatic control, determined by the vacuum, of the electromotor which drives the exhauster. 1.

291. Gieseler, E. A —9 Jan. 1907. Filters of the sand bed type with means for controlling the flow of the supply and filtered and washing water and for preserving the bed 2.

292. Briggs R V —31 Oct 1906. Indigo, dried and in the form of powder, is made from the paste by a revolving steam-heated drum dipping into the paste and provided with a scraper. 1.

293. International Telegraphic Call Co —15 Dec. 1906. Signal selecting apparatus applicable as a telegraph call, etc 3.

294. Kennedy, R G —3 Dec 1905. Module for giving constant supply of water with varying head. The position of a counterbalanced annular valve is determined by the pressure in the flowing water past a conical attachment. 2.

295 Fernandez, F —15 Sept 1906 Ball bearings and hand brake attachment for wheels of road vehicles. 1

296 Tanner, W E. C.—2 Jan. 1907; UK. 13,879, 5 July 1905. Chain attachment to head stall chain for linking together two or more horses or other animals. 2.

297 Mody, J D.—Snake-bites and plague.

298. Allauddin, M.—Casting metal.

299. Allauddin, M.—Crushing mill.

300. Castle, P C. D —3 Aug. 1906; UK. 10,822, 24 May 1905 Gum tragasol is obtained from split kernels of locust beans by a process of soaking in water and formalin or other reagent, expression and cooling.

301. Takamine, J —22 Jan 1907. Diastases or enzymes, capable of converting liquefied starch into sugar, are prepared from aqueous extracts of grains and roots.

302. Fourcault, E.—22 Jan. 1907. Glass sheets are drawn from the molten glass in a furnace, which is divided by partitions to regulate the heat in the drawing chambers. 4.

303. Fourcault, E.—22 Jan. 1907. Glass sheets are drawn from the molten metal by asbestos covered rollers with tapered ends. 1.

304. Fourcault, E.—22 Jan. 1907. Glass sheets are drawn from the molten metal through a slotted float. 1.

305. **Stokes, I. W.**—6 March 1907. Adjustable railway rail clip for supporting safety locking bars. 3.

306. **Ragsdale, W. A.**—5 Jan. 1907; UK. 10,182, 1 May 1906. Delinting cotton seed with rotary scouring cylinders, brushes, and exhaust apparatus. 1.

307. **McMaster, C. J.**—21 Nov. 1906. Windmill head frame. 2.

308. **McMaster, C. J.**—21 Nov. 1906. Wheels for vehicles, pulleys, etc., are made with the hub in two parts laterally adjustable along the shaft so as to adjust the tension or pressure in the spokes. 1.

309. **Rutland, C.**—Cycle pumps.

10. **Cantono, E.**—30 Jan. 1907. Spring starting gear for internal combustion engines, motor cars, etc. 1.

11. **Harper, S. S. & Bethell, J U.**—3 Aug. 1906 Windmills with horizontal wheels, feathering vanes, tubular rims, and wire or other tension spokes. 6.

12. **Westinghouse, G.**—30 Jan. 1907. Steam turbines of the multi-stage, two-bearing type with the impulse system in the initial stages and Parson's type in lower pressure stages which are in two parts with flow in opposite directions for balancing. 1

13. **Siderurgica Glisenti Co.**—10 April 1907. Pistols of the automatic and magazine type. 4.

14. **Hasperg, A. Von.**—Sewing machine.

15. **Morden, S H.**—17 Aug 1906; UK. 10,331, 2 May 1906 Railway automatic vacuum brakes for narrow gauge lines with double cylinders and common vacuum chamber. 1.

16. **J. & H. Hadden & Co., Ld., & Hadden, R**—23 Oct. 1906; UK. 26,355, 3 Dec. 1904. Bandages, especially for horses' legs, of tubular stockinette fabric, locally thickened by pile threads. 1.

17. **Codd, C. H.**—19 Oct. 1906. Spring hinged cover for back-sight of rifles. 1.

18. **Jackson, E. L.**—Cooling air.

9. **Batten, C. A. C.**—30 Oct. 1906. Illuminated fore-sight for rifles, etc., and electric connections and lamps for lighting the sight and object. 2.

0. **Chatterjee, P C.**—Loom.

1. **Rossenrode, J. H.**—2 April 1907. Gaiters with bar and key hole slot fastenings and strap and buckle. Improvements on No. 94 of 1906. 1.

2. **Poulsen, V.**—10 Aug 1906; UK. 6217, 14 March 1906. Wireless telegraphy in which the vibrations sent are controlled by varying the length or extinction of an electric arc. 2.

3. **Bryant & May, Ld.**—10 Aug. 1906; UK. 12,817, 1 June 1906 Match box filling machine. 11.

4. **Reid, H. & Ramsay, D M.**—5 Feb. 1907; UK. 10,311, 5 May 1904. Electrically driven locomotives, carrying steam and electric generators, are furnished with steam turbines and air-cooled condensers. 1.

5. **Kjellström, O.**—5 Feb. 1907; UK. 11,835, 21 May 1906. Cement pipes reinforced with helically laid wire, and machine for making them. 1.

6. **Rose, A.**—17 Nov. 1906. Railway chair metallic keys of tapered channel section with spring tongue. 1.

7 **Crawford, A. A.**—2 Nov. 1906. Electric couplings of plug type for railway vehicles and accumulators. 3.

328. Sait Mutumull & Sait Naraindas.—Reservoir.

329. Ragsdale, W. A.—5 Jan. 1907; UK. 10,183, 1 May 1906. Delinting cotton seed with rotary scouring cylinders, brushes, and exhaust apparatus. 2.

330. Dass, K. C. & Maitra, B. C.—17 April 1907. Loom with beating up, picking and shedding motions worked from elliptic cams on a single shaft and with parallel picking motion. 1.

331 Baron, L. B.—17 Aug. 1906; UK. 2538, 1 Feb. 1906. Cigarette making machines in which a continuous roll or rod of tobacco is formed and laid on the paper strip which is then folded over, pasted, and cut into lengths. Improvements on No. 153 of 1902. 4.

332. Brunswick Refrigerating Co.—18 Aug. 1906. Refrigerating machinery of the ammonia compression type; circulating, compression pump valve, oil recovery and other details. 6.

333. Boult, A. J.—12 Oct. 1906. Sulphuric acid is made from low grade pyrites mixed with gypsum, briquetted and burnt in current of air.

334. McCabe, W. L.—20 Sept. 1907. Endless belt conveyors with angular adjustment; constructional details. 6.

335. Buckeridge, E. W & G. H.—Railway signals.

336. Bergmann, C—5 Feb. 1907; UK. 12,905, 2 June 1906. Flyer spindle for spinning, doubling, etc.; the cop is formed on a sleeve movable on an axially fixed spindle. Improvement on No. 281 of 1905. 1.

337. Enrietti, C.—6 Feb. 1907. Steam, gas, etc., engines with pistons working in opposed pairs of cylinders coupled to rocking shafts from which the rotary shaft is driven. 2.

338. Nur Din, Siraj Din, Shah Mohammad & Nur Ahmad.—Syphon.

339. Wallace, J—Stamps

340. Costikyan, N.—6 Feb. 1907; UK 15,283, 25 July 1905. Weaving pile fabrics of the Oriental rug type having Persian knots. 8.

341. Fowle, T. E—9 April 1907 Tents of the military service type combined with a tente d'abri; poles and supports. 3

342. Washington-Licht-Gesellschaft.—17 Aug 1906; UK 12,420, 28 May 1906. Oil vapour lamp with inclined vaporizer and bent mixing tube. 1.

343 Chesney, H. F.—Roofing.

344. Mubion, S. M.—Latrine.

345. Storey, C. B. C.—19 Feb 1907; UK 14,418, 12 July 1905. Gold and other ores, etc, are treated with liquids and gases, screened and abraded in revolving apparatus provided with concentric plain and screen surfaces and with means for feeding and withdrawing material, liquids, etc. 3.

346. Lock, W. H.—10 April 1907; UK. 2421, 31 Jan. 1906 Casting curved stereotypes, details of machine for moving segmental back to and from cylindrical core, pumping metal and moving core for removal of stereotype. See also No. 508 of 1905 and No. 236 of 1906. 6.

347. Young, H. H. & H W. & Bergtheil, A. & E.—19 Feb. 1907; UK. 26,306, 2 Dec. 1904. Mechanism for converting rotary into oscillating motion, applicable to punkahs driven by electromotors, consisting of spring mounted sector frictionally driven by a pinion. 1.

348. International Specialities Company.—19 Feb. 1907. Bottle stopper of cap form with projecting fingers to engage neck, one finger being prolonged to aid in opening 1.

349. **Lea, J. E.**—19 Feb. 1907; UK. 3000, 14 Feb. 1905. Measuring and recording quantity of liquid flowing over a weir or through an orifice of float working a spirally grooved drum carrying a pen or sheet. 1.

350. **Burks, F.**—Dumb bells.

351. **Marshall, W. R. & Hargreaves, T.**—19 Feb. 1907; UK. 14,732, 18 July 1905. Smoke is consumed in steam generator furnaces by heated air supplied through the bridge from heating pipes and steam jet arranged at the back. 3.

35[illegible]. **Palmer, I. E.**—19 Feb 1907. Creel frames with pivoted rack bars arranged for doffing spools without inring with threads. 2.

353. **Palmer, I. E.**—19 Feb. 1907. Spinning-thread guide for spinning and twisting machinery made of wire with longitudinal and swinging adjustment. 1.

354. **Nicholas, M.**—23 Aug 1906; UK 23,509, 15 Nov. 1905. Wool, textiles, etc., to be cleaned, dyed, etc., are placed between two pistons reciprocated in a closed cylinder. 1.

355. **Dowe, A. W.**—Railway wagon doors.

356. **Nikolsky, W.**—22 Feb 1907; UK. 3661, 14 Feb 1906. Distilling and condensing arrangements for recovering solvent from explosives like cordite. 3.

357. **Otis, S.**—11 Feb. 1907; UK. 13,505, 12 June 1906. Railway trucks with drop bottoms, construction of bodies, doors, hinges and fastenings. 4.

358. **Meissner, O. W.**—11 Feb. 1907; UK. 13,507, 12 June 1906. Ballast levelling plough attachment for railway trucks with drop bottoms. 3.

359. **Hart, H. S., Neikirk, J. O. & Cameron, F. C.** 11 Feb 1907; UK 13,504, 12 June 1906. Ballast levelling plough attachment for railway trucks with drop bottoms. 3.

360. **Hart, H. S., Meissner, O. W. & Neikirk, J. O.**—11 Feb. 1907; UK. 13,503, 12 June 1906. Railway trucks with drop bottoms convertible into hopper or flat bottoms, construction of bodies, frames, doors, hinges and fastenings. 12.

361. **Oliphant, W.**—18 Feb 1907. Oil gas generator with vaporizing and mixing chambers and adjustable burners for heating the former. 2.

362. **Oliphant, W.**—18 Feb. 1907; UK. 9605, 24 April 1906. Carburettor consisting of tank with spiral air passage and movable baffles and bird fountain feed for liquid. 1.

363. **Roy, C. M.**—4 Oct. 1906. Brick kiln, arrangement of bricks in chambers, flues, dampers, chimneys, etc. 5.

364. **Schrottky, E. C.**—17 Aug. 1907; UK. 10,506, 4 May 1906. Indigo. Alkaline or neutral saccharates or glucosates, prepared as described, are added in indigo fermentation vats. These salts may also be used in dyeing and for other purposes.

365. **Shirtliff, F.**—3 Jan. 1907. Fastening for doors, lids and covers, consisting of a link and cam lever with a toggle action. 1.

366. **Servai, A. S.**—Water lift.

367. **Fisher, A. E. & Arnold, D. A.**—5 March 1907. Bath bricks are made of ground mixture of Indian bath oolite and clay, lightly burnt.

368. **Société Anonyme des Automobiles de la Buire.**—10 Sept. 1906. Bevel transmission gear for live axles of motor cars, etc. 1.

369. **Warsop, T.**—30 Aug. 1906; UK 6085, 23 March 1905. Rock drill of percussive type driven by cam and flexible shaft. 1.

370. Moore, M. & Heskett, T. J.—26 Feb. 1907. In iron and steel manufacture by the direct process, the slag in the end furnace is kept in the ferrous condition by a lining or by additions of carbon.

371. Noel, L. A.—26 Feb. 1907. Spring wheel with movable plate carried by a number of spiral springs in side plates on the nave. 2.

372. Clark, J. T.—4 May 1907; UK. 20,387, 9 Oct., 1905. Washer with spring tongues for locking nuts. 1.

373. Boeken, H. J.—26 Feb. 1907; UK. 14,052, 19 June 1906. Ramie, etc., decorticating machine with feed rollers and reciprocating teeth to bend the stalks as they pass through a slot. 2.

374. Boeken, H. J.—26 Feb. 1907; UK. 14,352, 22 June 1906. Scutching machine for removing fleshy material from fibre with rope and belt feeds and revolving knives and bearing surfaces. 2

375. Kitsee, I.—25 Feb. 1907; UK. 10,249, 2 May 1906. Telegraph transmitters and receivers for long distance lines of large capacity. 1.

376. Dowe, A. W – Railway wagon doors.

377. Ritchie, A. M. & Margrie, F.—17 Dec 1906; UK. 16,483, 14 Aug. 1905. Portable disappearing targets worked by spring or other motor, liberated electrically. 1.

378 Payne, C. Y —Perpetual motion.

379. D'Cruz, M.—Press.

380 Doss, Khetromohon.—18 March 1907. Brick and tile making machinery of two types. (1) Elevator and pug mill extrusion type with sanding and cutting appliances. (2) Plunger press with rotating mould and ejectors. 2.

381 Doss, Khetromohon.—Brick kiln.

382. Gill, H.—Latrines

383. Lobnitz, F.—1 March 1907; UK 8578, 10 April 1906 Rock, etc., is broken up under water or on land by a heavy chisel tool for which special winch hoisting and controlling arrangements, tools and attachments are described. Reference is made to No. 212 of 1903 4.

384. Haywood, T E. & Saxby and Farmer, Ld – 1 March 1907; UK. 15,402, 27 July 1905 Roller frames for railway point and signal rods with top and side rollers and connecting bars and covers 1.

385 Thom, T. M. –1 March 1907; UK 20,070, 4 Oct. 1905. Artificial stone is made from pulverized limestone débris mixed with lime, the mixture being slaked, moulded, dried and carbonated See also No. 242 of 1906

386 Rogers, C R.—1 March 1907. Fibrous material is retted and degummed by from pulverized limestone débris mixed with lime, the mixture being between rollers where it is sprayed, and then over drying tables. 2.

387. Dorwold, G. L. M. –Oil engines

388. Wolff, W H.– 21 Sept. 1906. Railway chair keys of metal strip cast or bent in U-form with one return end. 1.

389. Appleby, J F.—5 Jan. 1907. Cotton picking or harvesting machine with means for oiling the picking fingers. 2.

390. Tice, W – 31 Oct 1906.—Sanitary cart with pouring neck and double lid. 2.

391. Harris, J.—16 Feb. 1907; UK. 20,524, 23 Sept. 1904. Ozone or ozonized air is used for combustion of fuel in furnaces, etc.

392. Gange, A. J. & Majumdar, K. N.—Pottery.

393. Oldfield, M. H.—16 Feb. 1907. Railway vehicle central buffer and automatic coupling of shackle and cam type with modified locking gear. 1.

394. Tice, W.—31 Oct. 1906. Latrine with seats and footrests placed longitudinally to the soil trough and with water trough alongside. 1.

395. Haywood, T. E. & Saxby and Farmer, Ld.—8 March 1907; UK. 267, 4 Jan. 1906. Railway safety locking bar with link mounting arranged to reduce power required for operation. 1.

396. Clarke, Chapman & Co. & Woodeson, W. A.—31 Oct. 1906; UK. 22,346, 1 Nov. 1905. Steam boilers of the tubular type described in No. 481 of 1905 with nests of tubes arranged so that manholes in the central steam drums serve two sets of tubes. 2.

397. McAdams, W. A—8 March 1907. Aluminium alloys are cast in moulds made of a mixture of carborundum and sugar, to which clay and carbon may be added, in order to remove heat more quickly from thicker portions of the casting.

398. Cardew, D.—9 Nov 1906. Journals of railway vehicles with ring of angular section to prevent escape of lubricant. 2.

399. Kalhaikar, B. G.—Water lift.

400. Mijs, J.—17 Sept. 1906; UK. 495, 8 Jan. 1906. Paraffin wax is refined by treating it in the molten or powdered form with solvents, such as alcohols of the fatty series and their derivatives, to dissolve out the impurities.

401. Tharaud, A.—19 Sept 1906; UK 14,244, 21 June 1906. Incandescent oil vapour lamps with means for controlling the air supply. 1.

402. Chaulin, A. L. M.—17 Sept. 1906; UK 15,053, 2 July 1906. Parallel flexible electric conductors arranged as blinds, etc., and used as a protection against insects. 1.

403. Audiffren, M. & Société des Establisements Singrün.—6 March 1907; UK. 13,692, 14 June 1906 Refrigerating apparatus of the ammonia compression type. 1.

404. Shallis, F. W.—12 Sept. 1906; UK. 23,682, 17 Nov. 1905. Baling cotton, etc. —travelling box with locking attachments for transferring bale from preliminary to finishing press. 3.

405. Rentz, H.—13 Sept. 1906; UK. 6589, 19 Mar. 1906 Railway signals connected to stops in permanent-way which cause the brakes to be applied when the signals are at danger. 1.

406. Heinrichsdorff, C.—25 Oct. 1907; UK. 11,929, 7 June 1905. Oil vapour incandescent lamp, construction of draught chimney and vaporizer. 4.

407. Mehta, P. C.—26 Jan. 1907. Fuel briquettes made of waste from cleaning cotton fibre and from warp ends in looms.

408. Standen, A. E.—25 Feb. 1907. Measuring strip, serving also to protect or display fabrics, such as ribbons in rolls. 1.

409. Fredell, J. C.—21 Sept. 1906; UK. 15,501, 9 July 1906. Electrically controlled shutter for optical apparatus such as opera glasses used in connection with coin freed mechanism. 2.

410. Imperial Automatic Light, Ld.—21 Sept. 1906; UK. 24,490, 11 Nov. 1906. Acetylene storm lamp with high pressure generator and shield for burner to prevent clogging. 1.

411. Anderson, A. M.—21 Sept. 1906; UK. 13,648, 14 June 1906. Railway brakes, the control cocks of Westinghouse brake couplings have an extra passage to allow escape of air on uncoupling. 1.

370. Moore, M. & Heskett, T. J.—26 Feb. 1907. In iron and steel manufacture by the direct process, the slag in the end furnace is kept in the ferrous condition by a lining or by additions of carbon.

371. Noel, L. A.—26 Feb. 1907. Spring wheel with movable plate carried by a number of spiral springs in side plates on the nave. 2.

372. Clark, J. T.—4 May 1907; UK. 20,387, 9 Oct., 1905. Washer with spring tongues for locking nuts. 1.

373. Boeken, H. J.—26 Feb. 1907; UK. 14,052, 19 June 1906. Ramie, etc., decorticating machine with feed rollers and reciprocating teeth to bend the stalks as they pass through a slot. 2.

374. Boeken, H. J.—26 Feb. 1907; UK. 14,352, 22 June 1906. Scutching machine for removing fleshy material from fibre with rope and belt feeds and revolving knives and bearing surfaces. 2

375. Kitsee, I.—25 Feb. 1907; UK. 10,249, 2 May 1906. Telegraph transmitters and receivers for long distance lines of large capacity. 1.

376. Dowe, A. W — Railway wagon doors.

377. Ritchie, A. M. & Margrie, F—17 Dec 1906; UK. 16,483, 14 Aug. 1905. Portable disappearing targets worked by spring or other motor, liberated electrically. 1.

378 Payne, C. Y —Perpetual motion.

379. D'Cruz, M.—Press.

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385 Thom, T. M. –1 March 1907; UK 20,070, 4 Oct. 1905. Artificial stone is made from pulverized limestone débris mixed with lime, the mixture being slaked, moulded, dried and carbonated See also No. 242 of 1906

386 Rogers, C R.—1 March 1907. Fibrous material is retted and degummed by from pulverized limestone débris mixed with lime, the mixture being between rollers where it is sprayed, and then over drying tables. 2.

387. Dorwold, G. L. M. –Oil engines

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389. Appleby, J F.—5 Jan. 1907. Cotton picking or harvesting machine with means for oiling the picking fingers. 2.

390. Tice, W – 31 Oct 1906.—Sanitary cart with pouring neck and double lid. 2.

391. Harris, J.—16 Feb. 1907; UK. 20,524, 23 Sept. 1904. Ozone or ozonized air is used for combustion of fuel in furnaces, etc.

432. United Cotton Gin Co.—27 March 1907; UK. 8639, 10 April 1906. Cotton ginning machine with fixed knives placed radially and parallel to end faces of flat or coned revolving discs. 3.

433. Sutton, G. W.—23 July 1907; UK. 15,744, 12 July 1906. Centrifugal hydro-extractor with discharge doors at bottom of the drum and scraper connected to the doors to clean the drum. 1.

434. Ralli, L. E. & Argenti, P. L.—27 April 1907. Eccentric with adjustable throw for use in roller gins. 1.

435. Paulet, S. H.—Wire ropeway.

436. Plant, W. C. T. G. G.—Coupling.

437. Ralli, L. E. & Argenti, P. L.—27 April 1907. Crank pin sleeve or roller for use in roller gins. 1.

438. Davda, V. K.—22 Dec. 1906. Mica lamp chimneys made in renewable sections with metallic joints 1.

439. Fell, G. P. R.—12 Oct. 1906; UK 11,559, 17 May 1906. Railway vacuum brake with horizontally placed cylinder, both cylinder and piston rod being movable. 1.

440. Fraser, J. J.—19 Nov. 1906; UK 17,200, 25 Aug. 1905 Grinding and crushing mills for bones, etc., with rotating disc between fixed discs, the grinding faces having studs or abrading material attached. 2.

441 London, W. J. A.—UK 13,883, 5 July 1905. Steam turbines with part or all of the low pressure blades arranged for reserve flow to balance and pressure. 1.

442. Hart, E. W. & Durtnall, W P.—Propulsion.

443. Hardy, J. R.—27 March 1907; UK. 6697, 20 March 1906. Railway vacuum brake, arrangements for emergency and service application and for ensuring correct action of quick action valves in relation to rear valve. 1.

444. Ommanney, G. S.—13 March 1907. Tent d'abri constructed with two sheets of six-sided form. 1.

445. Dodge, W. H.—30 Oct. 1906. Cap stopper for bottles, jars, cans, etc., with flange partly severed and used for fastening in various ways. 3.

446. Crawford, A. A.—Tides.

447. Crawford, A. A.—22 Nov. 1906. Two or more fans with inclined axes, frictionally driven by electro-motor. Applicable to railway carriages, etc. 1.

448. Kirloskhar, V. K. & Tembe, V. K.—16 Nov. 1906. Boiler for heating water with stand, adjustable grate, enlarged heating surface, arranged for continuous delivery. 1.

449. Manuel, C. O. & Shaw, Wallace & Co.—25 Oct. 1906. Cap or stopper for kerosene cans combined with lamp in which other lamps may be nested. 1.

450. Imperial Fibres Syndicate, Ld.—20 Nov. 1906; UK. 26,614, 20 Dec. 1906. Decorticating scutching and combing machine for fibrous material with scrapers on endless belts across which material is traversed. 3.

451. Taylor, W.—12 Oct. 1906; UK. 9999, 12 May 1905. Railway points with tappet and rolling weight devices arranged to close point rails if partly open and either to reverse or to return the points when trailed through. 2.

452. Leister, C.—26 March 1907; UK. 24,372, 10 Nov. 1904. Liquid fuel burner for furnaces with compressed air for combustion supplying, and controlling supply of oil and with additional annular jet of air. 1.

453. Auscher, P. & Dehainault, C.—30 Oct. 1906; UK. 17,652, 4 Aug. 1906. Duplicator book with folded leaves and stationery transfer paper. 2.

454. Hedgeland, F. W.—30 Oct. 1906. Clutch and equalizing gear for motor cars arranged to allow motor to act as brake. 1.

455. Merrell-Soule Co.—3 Aug. 1907. Liquids are concentrated and their solid constituents obtained in the form of powder by treatment in a vacuum pan followed by spraying through dried air. 1.

456. Mackie, M. W. W.—31 Oct. 1906; UK. 2364, 30 Jan. 1906. Dynamo and electromotor field windings arranged for constant electromotive force for train lighting, etc. 1.

457. Clutsam, F.—Music.

458. J. H. Rivett & Sons.—17 April 1907. Cart with shaft arrangement adaptable for horse, bullock or coolie, and with removable axle and wheel connections to facilitate transport. 2.

459. Wormser, A.—1 July 1907; UK. 26,891, 23 Dec. 1905. Kaleidoscope with adjustable mirrors. 1.

460. Snell, R. Z.—20 Nov. 1906; UK. 14,138, 20 June 1906. Concrete, etc., mixing apparatus with receptacle mounted to revolve simultaneously on horizontal and vertical axes. 1.

461. Deidesheimer, A. & Jurschina, F.—16 May 1907; UK. 16,104, 16 July 1906. Bricks and artificial stone are made by mixing ground fire brick, etc., with small proportions of clay and water, dry pressing, and burning.

462. Ozonair, Ld.—3 Dec. 1906; UK. 16,392, 11 Aug. 1905. Ozonizing apparatus, arrangement of fan, screens, electrodes, transformer and casing. 3.

463. Radclyffe, D. E.—3 Dec. 1906; UK. 10,465, 18 May 1905. Ramie, rhea, etc., is decorticated, scutched and degummed by first passing it between rollers of different forms and then boiling before drying. The boiling may be effected in cages on a rotary frame which carries them in and out of the liquid. 2

464 Sayer, R. C.—24 May 1907; UK. 3471, 12 Feb. 1906. Electric railway system with automatic and other control arrangements. 6.

465. Bonnard, G. R. & Mackillop, G. H. -23 July 1907; UK. 19,725, 29 Sept. 1905. Ore stamping mills with cam arrangements for double lift and assisted fall. See also No 276 of 1907. 2.

466. Irwin, H.—2 May 1907. Fireworks arrangements used as bird scares.

467. Paterson, A.—20 Oct. 1906; UK. 15,850, 13 Juy 1906. Sight feed lubricator specially applicable for locomotive steam chests. 1.

468. Stoddart, F W.—17 April 1907; UK. 3241, 9 Feb. 1906. Liquid distributor, specially applicable for sewage, consisting of an arrangement of channels and corrugated perforated sheets. 1.

469. Thompson, W. P.—30 Oct. 1906; UK. 14,075, 19 June 1906. Oil and like presses with a revolving screw member and a cylindrical shell built up of grid bars of section to allow for wear. 2.

470. Gill, J.—8 May 1907; UK. 1083, 15 Jan. 1906. Rotary engine of the crescent chamber type. 1.

471. Kirloskar, V. K.—1 March 1907. Tiffin carrier with locking attachment. 1.

472. McDougall, A. & Siddall, G. F.—Nuts.

473. Wheatley, W. G.—Fencing

474. Velna, de G.—Coke.

475. Daly, W.—24 April 1907. Carburettor with combined spray and surface action for lighting and heating gas. 1.

476. Smith, G.—3 Nov. 1906; UK. 10,020, 12 May 1905. Drying grain and seeds by gilled hot water or steam pipes placed in hoppers and shoots used in handling. 3.

477. Shroff, B. P.—Bottle opener.

478. Hood, D. N.—25 June 1907. Ore stamps and roller mills combined with upward current classifying apparatus and discharge in place of the usual screens. 4.

479. Michaud, G. & Delasson, E.—11 Sept. 1907. Filaments for lighting or heating purposes are made from the constituents in a fused state. 1.

480. Decker Electrical Manufacturing Co.—20 April 1907. Electric primary batteries, construction of cells, diaphragms, supports and connections. 3.

481. Forlanini, E.—Hydroplanes.

482. Humphries, G.—15 July 1907. Scaffolding brackets. 1.

483. Aduck, G. C.—17 Nov 1906. Hand power jute presses of the screw and toggle lever type. 1.

484. Schaellibaum, R.—29 April 1907; UK: 12,297, 26 May 1906. Opening and scutching machines—construction of grid and comb. 1.

485. Burroughes, L. H. J —22 Dec. 1906; UK. 7366, 27 March 1906. Billiard tables with hinged cushions. 1.

486. Roy, P. N.—1 June 1907. Spinning machines, general construction and details of bobbins, flyers, gearing and framework. 9.

487. Bateman, A. S.—6 Nov. 1906. Corset attachment for regulating the waist and improving the figure. 2.

488. Horne, L. D.—Bamboo fibre.

489. Piperno, A.—30 April 1907 Paddy and like drying apparatus with moving hopper distribuutor, turning and discharging appliance. Hot air is desiccated before heating by cooling it. 4.

490. Charleston, E.—24 April 1907. Axle box with sloping sides, holding lubricant packing. 1.

491. Tagliabue, C. J.—23 March 1907. Safety razors with thin blades, holding and guarding devices. 2.

492. Wasterland, C.—27 Feb. 1907 Railway vehicle bearings, removal of bushes prevented by pin in axle guard groove. 1.

493. Pradeau Wheel Syndicate, Ld.—25 March 1907; UK. 24,205, 9 Nov. 1904. Spring wheels for motor cars, etc., with spring plunger connection between the rim and each spoke. 1

494. Stendebach, K. F. P.—15 Nov. 1906. Projectiles for smooth bore guns with circumferential recesses and ribs, and also with elastic wad and tail piece. 1.

495. Byrne, T. P.—Ruler.

496. Fowler, F. D.—16 Feb. 1907. Railway signal wire compensator with counterweight and grip. 2.

497. Sepulchre, L.—26 Nov. 1906; UK. 2503, 1 Feb. 1906. Stationary cap or top for lamp and other chimneys, ventilating shafts, etc., with rings and plates arranged to give annular outlets. 1.

498. Cameron, W. A. H. & Marshall, J. W.—8 May 1907; UK. 23,294, 13 Nov. 1905. Brush and jet appliance for washing glasses. 1.

499. De Forest Wireless Telegraph Syndicate, Ld.—Wireless telegraph.

500. Ximenez, F. S. Y.—8 May 1907. Submergible pontoon apparatus for raising sunken vessels. 2.

501. Kuhnel, J. F.—8 Dec. 1906. Encaustic mosaic tiles with dried or burnt tesserae arranged on the base, filled with fusible glaze, etc., and burnt.

502. Molloy, R. A.—4 July 1907. Flexible shaft equivalent for transmitting motion through an angle consisting of a chain and guides working round a fixed bent guide. 3.

503. Pearson, G. H.—20 Nov. 1906; UK. 21,345, 20 Oct. 1905. Locomotive boiler blow off arrangements for removing sediment. 1

504. Reid, H. N.—12 April 1907. Ice floors for skating, etc., purposes. 3.

505. Ross, P.—15 Dec. 1906. Railway signal lever with interlocking gear worked from control cabin, etc. 1.

506. Griffin, J. V—2 April 1907. Punkah pulling gear, arrangements for disconnecting any one or more of a series 1.

507. Incandescent Heat Co., Ld., & Smallwod, A.—17 Nov. 1906: UK. 18,877, 19 Sept. 1905. Furnaces or kilns for crucibles, annealing, pottery, etc., with single grate and arrangement of flues and dampers for cutting out one or more of the separate heating chambers 5.

508. Whitelegg, R. H.—25 April 1907; UK. 26,870, 9 Dec. 1904. Locomotive blast regulator controlled from engine valve gear. 2

509. McKay, P.—16 March 1907. Chuck or holder for rock and other drills. 1.

510. De, J. N.—Chair.

511. Hatmaker, J. R.—13 May 1907; UK. 20,339. 21 Sept. 1904. Milk powder is prepared as described in No. 14 of 1904 from milk which has been partly freed from cream and had milk sugar added.

512. Glasscoe, T. H.—8 May 1907; UK. 14,226, 10 July 1905. Carburettor with means for automatically controlling the carburetting surface or elements, heat, air and oil supply, thermostatically or by pressure or demand. 4.

513. Glasscoe, T. H.—8 May 1907; UK. 435, 10 Jan. 1905. Carburettor with means for automatically controlling the gas by air and flame temperature thermostatically and by volume. 3.

514. Glasscoe, T. H.—8 May 1907; UK. 435a, 10 Jan. 1905. Gas burner for weak or dilute oil gas or constructed with perforated cones and gauze. 1.

515. Meddings, W. G.—8 May 1907; UK. 13,117, 6 June 1906. Fire prevention sprinklers with electric indicators of which the circuit is completed by the water when the sprinkler opens. 1.

516. Butters, C.—30 Nov. 1906; UK. 20,979, 21 Sept. 1906. Filtering and washing slimes with the aid of vacuum or pressure and hollow filtering elements immersed in the liquid. 2.

517. Marconi's Wireless Telegraph Co., Ld.—8 May 1907; UK. 16,655, 16 Aug. 1905. Wireless telegraphy. Receiver with horizontal antenna in two parts with detector between them and horizontal transmission antenna with generator end nearer receiver; see also No. 126 of 1906 1.

518. **Kuppachary, S.—Water lift.**

519. Chakravarti, B. B.—7 Jan. 1907. Roofing tile with ribs and locking projections. 1.

520. Tomlinson, E. M.—22 Dec. 1906; UK. 10,594, 5 May 1906. Hand signalling lantern, for railway use, with arrangements for changing the colours by a sudden twisting movement of the hand. 3.

521. Walker, J.—7 Feb. 1907. Instantaneous hose coupling with studs on spigot and L-groove in socket. 1.

522. Caught, J. N.—Tap.

523. Lane, F. L. & The Leeds Forge Co., Ld.—30 Nov. 1906; UK. 20,631, 17 Sept. 1906. Wagon doors with overlapping edges and ribbed or corrugated panels. 1.

524. Savage, W. C. R.—Cards.

525. Sipahi Malani, T. K.—Medicine.

526. Brauning, K. A.—29 Nov. 1906; UK 19,954, 7 Sept. 1906. Magazine firearms of automatic type with locking mechanism. 1.

527. Inglis, H. and Liddle, W.—29 Nov. 1906; UK. 5520, 7 March 1906. Locomotive spark arrestors with angled wire gauze, etc., placed in inverted conical forms. 1.

528. Akbar Ali.—4 Feb. 1907. Loom with pricking and shedding motions worked from a single cam shaft. 1.

529. Horne, L. D.—Tea boxes.,

530. Melland-Smith, J.—29 Nov. 1906; UK 14,454, 13 July 1905. Railway couplings with pivoted hook and link operated from either side of the vehicle. 1.

531. Kennedy, H. P. & Greengrass, W J.—16 May 1907. Composition of Portland cement, graphite, white lead, red lead, silicate of sod and linseed oil for preventing rust or corrosion.

532. Feeny, E. J.—16 March 1907. Pumps for oil wells, etc., with fluid piston packing, supplementary injector action, and flexible connection of piston to rod. 3.

533. Perry, H. W.—Fans.

534. Mukharji, S. N.—Gramophones.

535. Jawahar Singh.—24 Oct. 1907. Road vehicle wheels fast on axles and tyres secured by wedging on rims. 3.

536. Bostock, H. & Peck, J. A.—28 May 1907. Locking nuts with ribbed and dished washer and spiral spring washer. 1.

537. Helbronner, A. & Vallee, E. A.—8 Dec. 1906; UK. 20,548, 15 Sept. 1906. Ossein, a gelatine-like product from bone, treatment and uses as artificial leather or as sheets, threads, etc.

538. Kimber, W. E.—28 May 1907. Sharpening star and other shaped rock drills or bits by swages and cutters worked by power. 3.

539. Perry, H. W.—Lamp.

540. Stuart, R. W.—16 March 1907. Steam cooking appliance with partial air jacket, condenser and water level whistle alarm. 1.

541. Youlten, W.—6 Dec. 1906; UK. 4953, 9 March 1905. Cotton waste, hair, wool, etc., is cleaned by machinery comprising beaters and blowers in perforated chambers. 3.

542. Farquhar, G., & North, R.—6 Dec. 1906; UK. 6422, 16 March 1906. Metal cans for food are closed by soldering in an exhausted chamber. 2.

543. Cammiade, G. E.—23 March 1907. Carbonic acid is made by passing steam over hot carbonaceous matter, diffusing out hydrogen through red hot iron, etc., and oxidizing the remaining hydrogen and carbonic mon-oxide with heated oxides.

544. Skelton, B. H.—Sterilizing.

545. Hart, E. W., & Durtnall, W. P.—28 May 1907; UK. 17,248, 25 Aug. 1906. Propelling vehicles and boats by combination of prime mover, dynamo and motor, the dynamo having a stationary armature wound for polyphase currents, and variable excitation for the field. 2.

546. Samuel, H. S.—28 May 1907; UK. 3493, 20 Feb. 1905. Wind and weather shield for motor cars, etc., in two parts, upper or both parts adjustable. 1.

547. Magnoid, Co., Ld.—28 May 1907; UK. 16,647, 16 Aug. 1905. Cast iron pieces are joined, or broken or defective castings repaired, by melting in small quantities of cast iron into the cleaned and clamped joint.

548. Berget, T. C. X. A.—30 July 1907; UK. 20,923, 20 Sept. 1906. Thermostatic control of refrigeration in railway vehicles.

549. Berget, T. C. X. A.—30 July 1907; UK. 20,924, 20 Sept. 1906. Thermostatic control of refrigeration in railway vehicles. 2.

550. Jackson, E. L.—15 Jan. 1907; UK. 16,688, 21 Aug. 1906. Self-closing taps and valves with pneumatic or other leak-off operating attachment. 2.

551. Lawrence, S. S.—10 Jan. 1907; UK. 21,645, 1 Oct. 1906. Signalling flag with telescopic and folding staff and whistle attached. 1.

552. Reid, A. J.—25 June 1907; UK. 25,695, 14 Nov. 1906. Railway vehicle brakes applied to wheel hubs and tyres by clutches on axle, rigging and compensating gear between vehicles, and hand or power control. 4.

553. Mudaliar P. S.—Waterlift.

554. Noad, J., & Townsend, E. J.—22 Dec. 1906; UK. 22,395, 10 Oct. 1906. Mineral oil is refined by blowing air through the heated oil in the stills and passing the vapour laden air through separators and condensers. 1.

555. Holford, J. C.—22 Dec. 1906; UK 19,721, 10 Oct. 1906. Typewriter machine details, specially for visible writing machines. 1.

556. Chandler, F.—1 March 1907. Baling press for hay, cotton, etc., with reciprocating plunger driving material through a tapered tube, and tying arrangements. 4.

557. Wagner, M.—4 June 1907. Bearing blocks are cast on to the skeleton inset which holds the cast in lining of bearing metal. 1.

558. Regnold, B. F.—Bottle opener.

559. Gibson, W. A.—4 June 1907; UK. 16,656, 24 July 1906. Feed water heater, separator and purifier for steam boilers with alternate heating and cooling of the water in sprays, separating chambers and tubes. 2.

560. Reschke, B. G.—11 May 1907; UK. 12,716, 31 May 1906. Explosives consisting of ammonium nitrate and seeds of umbelliferous plants, to which wood dust, dinitrobenzol, and copper oxalate, etc., may be added.

561. Hill, J., & Freeland, J. C.—Shirts.

562. Hill, E. J.—12 April 1907; UK. 6091, 13 March 1906. Double ended or S-shaped hook with closing link. 2.

563. Rosenberg, A.—16 May 1907; UK. No. 16,901, 26 July 1906. Gas generator of the water to carbide type working under pressure, applicable for oxygen or other material, or as a fire extincteur. Also can or receptacle for reagent. 3.

564. Thew, C. H.—15 June 1907. Railway signal for indicating parting of a train to the guard, consisting of a bell and ratchet and friction gear operated by reversal of motion of axle on runaway portion. 1.

565. Fuller, R. D.—15 June 1907. Locking device for oil lamps to prevent theft of oil and shifting of the wick. 1.

566. Winter, G. B.—Railway signals.

567. Moffat, J. M., Manley, J. W., Bott, R. J., and Electric Safety Appliances Co. —15 June 1907; UK. 27,271, 30 Dec. 1905. Electric leakage indicators and other indicating and measuring instruments with the coils formed of wires twisted together, and indicating or cut out attachments. 2.

568. Tropenas, A.—15 June 1907; UK. 6484, 17 March 1906. Steel manufacture in small converters. The silicon addition is made concurrently with or shortly after the appearance of the carbon flame. 1.

569. Bose, C. N.—Celluloid.

570. Sutton, G. W.—12 Nov. 1907; UK. 26,751, 22 Dec. 1905. Motor cultivator for working between the rows in tea gardens. 1.

571. Chapple, A. J. M.—25 June 1907. Pipe couplings of the readily disconnectible type held together by links and cam levers. 1.

572. Gentzsch, A.—22 May 1907. India-rubber. Waste or old vulcanized rubber is ground and mixed with small proportions of resin, wax, tar, pitch, asphalt, paraffin, stearine, oils or fats.

573. Gentzsch, A.—22 May 1907. India-rubber. Waste or old vulcanized rubber is mixed with one-fifth to one-tenth part of a sulphur, solvent such as aniline oil or anthracene, heated, reworked and may be vulcanized.

574. Ulmer, F., & Kleinebreit, W.—Mine cage.

575. Dalley, R., & Scrafton, J.—15 April 1907. Loom shuttle throwing mechanism consisting of cams and spring trigger levers. 3.

576. Billows, A. J.—25 June 1907; UK. 26,303, 20 Nov. 1906. Aërating and bottling machine of the turnover type with compressed gas supply and small mixing chamber for small users. 2.

577. Floyd, H. P.—28 May 1907. Safety lock with hinged or sliding bolt, opened by key, for railway points and switches. 3.

578. Crawford, A. A.—Electric coupling.

579. Tice, W.—23 Jan. 1907. Portable latrine, built up of frames with slotted connections and corrugated sheets, fitted with plates and removable buckets. 1.

580. Solomon, J. I.—9 July 1907. Oysters, etc., are examined for pearls as described in No. 240 of 1906 on a metallic grid or belt. 1.

581. André, F.—11 Sept. 1907; UK. 1356, 18 Jan. 1906. Steel manufacture by the cementation processes in air tight muffles in a furnace with grates. 1.

582. Morgan, C. E.—8 July 1907; UK. 8217, 5 April 1906. Pack saddles with side members connected by adjustable sliding top connections, also adapted for dismemberment for transport. 2.

583. Imbert, A. H.—25 June 1907; UK. 10,303, 2 May 1906. Zinc, lead, etc., are extracted from sulphide ores by smelting with iron or other metal in the presence of additions to form a solvent slag. Reference is made to No. 264 of 1904.

584. McDonald, J.—8 April 1907. Winnowing and sifting machine for tea, seeds, etc., with fan, shaking feed, and screening surfaces constructed of inclined plates. 1.

585. Boklevsky, P. de.—9 July 1907. Centrifugal amalgamator with alternate fixed and movable hemispherical vessels for treating auriferous slimes. 1.

586. Jackson, W.—9 July 1907; UK. 20,133, 10 Sept. 1906. Tea rolling machine of the type with movable table and receptacle containing a presser, construction of table, driving and presser lifting gear. 4.

587. O'Driscoll, J. W.—Rifle sight.

588. Thomson, H. J.—10 Jan. 1907; UK. 16,868, 21 Aug. 1905. Stretcher, couch, hammock, chair, or table with base and two folding end members supporting adjustable canvas. 1.

589. Linotype and Machinery, Ld.—8 July 1907; UK. 26,251, 16 Dec. 1905. Linotype machines of the double magazine type with preliminary distributor for matrices according to fount and distributors for character. 3.

590. Linotype and Machinery, Ld.—8 July 1907; UK. 10,687, 7 May 1906. Linotype composing machines with matrix releasing mechanism arranged for two or more magazines, one above the other. 1.

591. Arbon, R., & Masters, J.—26 Jan. 1907. Rotary pumps of the Roots blower type with two or more intermeshing members grooved at edge and sides to reduce leakage. 1.

592. Bowman, E. D.—India-rubber.

593. J. Daws & Co.—Finger prints.

594. A. R. A. Rahim.—Music.

595. Mazza, E.—16 May 1907; UK. 7421, 27 March 1906. Centrifugal separator for treating gaseous mixtures. 1.

596. Lalit Chandra.—9 July 1907. Oil lamp with supplementary oil reservoir working like a bird fountain and provided with a screw and liquid seal cap. 1.

597. Composite Fuel Syndicate, Ld.—11 July 1907; UK. 7357, 27 March 1906. Fuel composition of coal dust and oil or similar materials with additions of lime, chalk and magnesia cements.

598. Gramophone and Typewriter, Ld.—25 June 1907. Gramophone with air current controlled by a valve connected to the stylus. 3.

599. Hibberd Prepayment Machine Syndicate.—9 Aug. 1907; UK. 17,877, 4 Sept. 1905. Coin freed mechanism, specially applicable to gas meters, capable of receiving coins of different value. 6.

600. Hatmaker, J. R.—8 July 1807; UK. 22,639, 20 Oct. 1904. Cocoa, sugar and milk compound in flaky form prepared by drying thin films of the solution, above 212° F.

601. Cantwell, E. L.—22 May 1907. Roofing, various methods of securing and jointing corrugated or plain roofing sheets. 1.

602. Veerasawmi. Naidoo, C. K.—4 Feb. 1907. Brief bag or box of a form similar to a Gladstone bag. 1.

603. **Hodgson, M. R. K.** Horse rug.

604. **Harwood, W. C. V., & Reed, S.**—25 June 1907; UK. 12,239, 25 May 1906. Ball cock and measuring vessel for delivering disinfectant to flushing systems. 1.

605. **Elliott, H. W.**—9 Aug. 1907. Lubricating wheel flanges of locomotives, etc., on curves by steam jet and oil sprayer. 1.

606. **Mitchell, T., & Hodgson, J.**—15 July 1907; UK. 26,476, 5 Dec. 1904. Back-sights for rifles in which the folding leaf may be kept vertical for all distances. 2.

607. **Fouillaron, G.**—25 June 1907; UK. 27,185, 29 Dec. 1905. Expanding pully with intermeshed cones, and driving belt consisting of leather, etc., pieces threaded on gut. 1.

608. **Hahn, R. M.**—25 June 1907; UK. 11,620, 2 June 1905. Dust laying composition for roads consisting of carbolic acid, oil, asphalt, tar, glycerine refuse and water.

609. **Perry, H. W.**—Railway points and signals.

610. **Beardmore, H.**—20 June 1907. Railway facing point lock and detector. 1.

611. **Josephs, H. F.**—Screens.

612.—**Snee, W.**—24 Jan. 1907; UK. 25,984, 16 Nov. 1906. Wave propelled motor of the vertical water wheel or turbine type. 2.

613. **Mondol, K. N. & H. L.**—Press.

614. **Westinghouse, G.**—26 July 1907. Railway vehicle draft gear and automatic coupling. 3.

615. **British American Tobacco Co.**—4 Sept. 1907. Cigarette mouth piece applying machine. 9.

616. **Pataud, H.**—3 Aug 1907. Wheel with expanding rim or removable felloes for facilitating replacement of tyres. 2.

617. **Brooke, C. H.**—Tins.

618. **Shirtliff, F.**—30 Jan. 1907 Jute, cotton, etc., baling press of the toggle lever type. 1.

619. **Western Syndicate, Ld.**—8 Feb. 1907; UK. 25,955, 13 Dec. 1905. Railway signalling on vehicles by electric means from the line. Improvement on No. 228 of 1906. 2.

620. **Hill, E. J.**—16 May 1907; UK. 22,517, 3 Nov. 1905. Railway vehicle automatic couplings. 3.

1907.

1. Lamb, V. B.—29 Jan. 1908. Brake shoe construction adapted for ready renewal. 2.

2. Lamb, V. B.—29 Jan. 1908. Brake shoe construction adapted for ready renewal. 2.

3. Lamb, V. B.—29 Jan. 1908. Brake shoe construction adapted for ready renewal. 3.

4. Lamb, V. B.—29 Jan. 1908. Brake shoe construction adapted for ready renewal with fusible junction material. 1.

5. Lamb, V. B.—29 Jan. 1908. Brake shoe construction adapted for ready renewal. 1.

6. Lamb, V. B.—29 Jan. 1908. Brake shoe construction adapted for ready renewal. 2.

7. Hines, J., & Coleman, T.—10 Aug. 1907; UK. 21,066, 22 Sept. 1906. Tank vehicle with pump and atomizer for spraying tar, etc., on roads. 3.

8. Fairlmie, N.—9 Aug. 1907; UK. 1131, 16 Jan. 1906. Water bottle for army, etc., use constructed to facilitate cleaning and to protect the contents from dust. 1.

9. Bailey, F., & Jackson, F. H.—9 Aug. 1907; UK. 1318, 17 Jan. 1906. Clutch with frictional surfaces controlled by hydraulic pistons. 2.

10. Josephs, H. F.—Screening grain.

11. Highfield, J. S.—14 Feb. 1907; UK. 1944, 25 Jan. 1906. Electric conductors are supported on insulators in metallic piping through which air is circulated under pressure or otherwise. 1.

12. Highfield, J. S.—14 Feb. 1907; UK. 1946, 25 Jan. 1906. Electric direct current series supply system with earth connection at midpoint of generators and indicating and earthing connections in the line. 1.

13. Highfield, J. S.—14 Feb. 1907; UK. 1947, 25 Jan. 1906. Electric supply system with earth return made in wells of considerable depth. 1.

14. Highfield, J. S.—14 Feb. 1907; UK. 16,820, 25 July 1906. Electric direct current series distribution with a number of conductors in parallel arranged so that any one can be cut out. 1.

15. Walters, W. H.—9 March 1907. Unloading or lifting material such as salt, coal, grain, etc., in bulk or bags from ships' holds, etc., by bucket elevators or continuous chain hoists. 1.

16. Stuart-Brown, P., H. J., & C.—14 Feb. 1907. Tea chest or packing case of wood veneer panels with metal lining and skeleton frame. 1.

17. Ghiglieri, W.—14 Feb. 1907; UK. 14,604, 26 June 1906. Nut lock with spring tongue or washer engaging teeth on nut. 1.

18. Braby, H.—9 Aug. 1907. Burners or atomizers for liquid fuel, especially residual oils. 2.

19. Sutton, G. W.—Centrifugal separators.

20. Sutton, G. W.—Tea rolling.

21. Windham, W. G.—1 March 1907; UK. 10,388, 17 May 1905. Motor cars with part or the whole of the body removable. 1.

22. Majumder, A. K.—Spinning.

23. Petit, M. C.—Road vehicles.

24. Carpenter, A. W.—17 May 1907; UK. 17,298, 26 Aug. 1905. Wheel tire composed of thin elastic cords wound in layers, preferably on a harder core and enclosed in a cover. 1.

25. Chloride Electrical Storage Co.—27 Feb. 1907; UK. 839, 16 Jan. 1905. Electric accumulator plates filled with inert material and porous lead or lead oxide. 1.

26. Stuart, R. W.—16 April 1907. Carburettor with water seal over air inlet pipe, outlet valve and gauge. 1.

27. Herbert, F.—29 June 1907; UK. 17,541, 3 Aug. 1906. Sand moulding machine specially adapted for pipe founding. 2.

28. Friend, J. E.—29 June 1907; UK. 886, 12 Jan. 1907. Rotary engine of the annular chamber type. 7.

29. Chemical Industrial Syndicate.—1 March 1907; UK. 16,453, 20 July 1906. Matches and igniting surfaces with the phosphorous replaced by diazo compounds such as diazobenzenesulphonic acid.

30. Schofield, H., & Macfarlane, O. P.—9 Aug. 1907. Steam generators of Cornish, Lancashire and Galloway types, with cowls or nozzles adjustably fitted to cross tubes to promote circulation. 1.

31. Perini, V. A. de.—15 July 1908; UK. 20,005, 8 Sept. 1906. Fibre and pulp for textile and paper manufactures produced from a plant of the Malvacea class, found in Brazil. 2.

32. Lindsay, W., Mackenzie, S., & Arthur, J.—9 Aug. 1907; UK. 23,310, 20 Oct. 1906. Spinning, bobbin drivers for roving frames. 1.

33. Hodgson, A. E.—10 Aug. 1907; UK. 4072, 19 Feb. 1906. Motor car and other vehicle bodies and folding seats. 2.

34. Krimer, M. L.—9 Aug. 1907; UK. 19,755, 5 Sept. 1906. Hair removing composition or depilatory containing barium sulphides, lime, etc.

35. Sandberger, F.—24 Sept. 1907; UK. 29,617, 29 Dec. 1906. Spinning, pressing and drawing rollers with working surfaces of aluminium. 1.

36. Marchant, C. A.—4 Nov. 1907. Locks of the slide or tumbler type with means for locking the slides or tumblers and preventing withdrawal of key. 9.

37. Mukherji, K. B.—Spinning.

38. Postans, A. J.—21 March 1907; UK. 25,302, 5 Dec. 1905. Calculating machine specially for adding cash, details of keys, drums, and carrying on mechanism. 2.

39. Kitson, A.—30 July 1907; UK. 4949, 28 Feb. 1906. Vaporiser or liquid fuel gasifier with internal helical passage and filter. 1.

40. Maginnis, A. J.—27 Feb. 1907; UK. 16,595, 23 July 1906. Spring wheels for heavy road vehicles with movable rim blocks bearing pneumatic or other springs, and means for excluding dirt. 2.

41. Blair, J.—8 Aug. 1907. Tea chest constructed of thin boards with internal frame, corner pieces, staples and bifurcated rivets. 1.

42. England, J. R., Kirby, J. H., & Rein, C. M.—1 March 1907. Music. Reed organs with arrangement of reed cells, resonance cells and horns. 4.

43. Burroughs, R. E. G.—Tobacco pipe cleaner.

44. Ganga Singh—Deep boring.

45. Hatmaker, J. R.—Milk powder.

46. Bradshaw, N., and Lomax, W.—4 Sept. 1907; UK. 26,558, 20 Dec. 1905. Cone belt or strap forks and shifting gear for spinning, scutching and other machinery. 1.

47. Bachmann, F.—4 Sept. 1907. Electric furnace for steel manufacture, construction and protection of body and electrodes. 2.

48. Heinrichsdorff, C.—25 Oct. 1907. Vaporizer for lamps, stoves, etc., consisting of a jacketted tube filled with filtering material. 1.

49. Mittermayer, J.—Motor cars.

50. Kaisser, C. F.—29 July 1907; UK. 27,128, 28 Nov. 1906. Singeing yarns and fabric by recessed plates, etc., electrically or otherwise heated. 1.

51. Jost, C.—24 April 1907. Lamp chimney attachment for cooking and heating purposes, hot air engines, etc. 1.

52. Forlanini, E.—13 March 1907; UK. 7603, 10 April 1905. Ships and boats are furnished with hydroplanes and aeroplanes for raising them above the water when in motion. See also No. 481 of 1906. 5.

53. McKay, P.—9 July 1907; UK. 23,399, 22 Oct. 1906. Spring buffers placed between axles and bodies of vehicles to absorb shocks and to relieve overloaded ordinary springs. 1.

54. Rose, S. A. M., & Crowle, H. B.—29 June 1907. Electric indicating apparatus for use with targets. 1.

55. Noble, T.—19 March 1907; UK. 4302, 21 Feb. 1906. Wells and drains are sunk or bored by tubes into which air or water under pressure is forced. 1.

56. Marshall, J. T.—13 March 1907; UK. 3144, 8 Feb. 1906. Valve gear for fluid pressure engines specially adapted for narrow gauge locomotives. Improvements on No 442 of 1901. 2.

57. Beresford, R.—4 Sept. 1907; UK. 3332, 10 Feb. 1906. Wheel rim for pneumatic tyres with detachable ring on one or both sides, locked by inflation of the tyre. 2.

58. Zeitschner, H.—11 Sept. 1907; UK. 5296, 14 March 1905. Textile materials are bleached by submission to damp air and chlorine, etc., followed by airing and exposure to hydrogen and marsh gas, prior to complete elimination of the bleaching agent in the wet way.

59. Mackaness, G., & Barnes, J.—4 Sep. 1907. Screw propellers with manifold blades of different sizes arranged in groups. 3.

60. Davey, A. J.—24 Sept. 1907; UK. 28,812, 18 Dec. 1906. Military equipments comprising belt and cartridge carriers braces or shoulder strap attachments for water bottle, haversack, knapsack entrenching tool, etc.

61. Watts, F. W.—Labels and tickets.

62. Industrial Patents, Ld.—22 June 1907; UK. 25,423, 22 Nov. 1904. Boot and shoe trees consisting of a toe piece and a laminated looped spring. 1.

63. Ransome, J.—2 April 1907. Louvred sunshade for buildings. 1.

64. Poppe, P. A.—25 May 1907; UK. 17,502, 3 Aug. 1906. Spray carburettor for oil engines with controlling means for air inlet and outlet and jet nozzle. 1.

65. Davies, T. M., and W.—25 June 1907. **Auxiliary rims, tyres or wheels for use** on pneumatic wheels in case of deflation. 2.

66. Whittle, T.—Speed indicator.

67. Rochford, M. D.—11 Sept. 1907. Elevator or excavator of the bucket chain type with holding up, tensioning, differential gearing, swivelling and digging attachments. 5.

68. Sandford, J. R.—Railways.

69. Radha Kisore Sinha.—Fan and hot air engine.

70. Comings, W. R.—4 Feb. 1908. Box folding or making and covering machine. 12.

71. Lentz H., & Société Francaise de Constructions Mécaniques.—29 July 1907. Gas and oil engines valves for admission, mixing and exhaust of double beat type with cooling arrangements and compressed air starting attachments. 5.

72. Sterne, L.—23 May 1907. Lignite is treated with oil or other coating to prevent dessication and disintegration.

73. Jones, R. G.—Road vehicles.

74. Parsons, A., Morton, J. A., Wright, J. C. and B.—19 March 1907; UK. 29,387, 24 Dec. 1906. Boot and shoe lasting machines. 1.

75. Linotype and Machinery, Ld.—17 Jan. 1908; UK. 28,683, 15 Dec. 1906. Linotype machine details. 5.

76. Enrietti, C.—11 Sept. 1907. Steam, gas, etc., engines of the type described in No. 337 of 1906 modified by placing the shaft below the cylinders. 1.

77. Sutton, L. H.—2 Jan. 1908; Tea rolling machine, with box movable over a continuously or intermittently moving table which is constructed as an endless chain. 1.

78. Edgell, E. A.—Roofs.

79. Bakewell, F. G.—8 April 1907. Hollow perforated bit, filled with water, etc., and used for training horses. 1.

80. Hatmaker, J. R.—19 Aug. 1907; UK. 28, 2 Jan. 1905. Eggs are prepared in dry form by drying in thin films on revolving heated surfaces as described for milk, etc., in No. 296 of 1905.

81. Phelps Co.—Caps.

82. Burn & Co.—18 April 1907. Entrenching tool shaped like a chopping knife with cutting and saw edges. 1.

83. Société Anonyme Westinghouse & Leblanc, M.—9 July 1907. Jet or surface condensers with injector and reflux action designed to ensure a residual pressure equivalent to the mean temperature of the condensing water. 1.

84. **McPherson, W.—Typewriters.**

85. Vogt, A.—19 April 1907; UK. 3971, 15 Feb. 1906. Volumetric efficiencies of piston engines such as fluid pressure motors, compressors, pumps, etc., are increased by utilising the hammer action in the supply pipes. 1.

86. Kendrick & Hill Manufacturing Co.—7 Dec. 1907; UK. 29,701, 31 Dec. 1906. Lawn mowers with ratchet and pawl geering arranged for reversing the motion of the cutters when necessary for sharpening purposes. 2.

87. Palmer, I. E.—17 Sept. 1907. Spinning, etc., thread guide made of wire and adjustable. 1.

88. Railway Supplies, Ld.—17 Sept. 1907. Railway fish plate made stiffer at the centre than at the ends by reinforcing additions in the thickness. 2.

89. Stockle, C. C.—10 March 1908. Fibre breaking machines with pairs of rollers driven by gearing and pressed together by springs. 3.

90. Laycock, W.—17 Sept. 1907; UK. 1529, 21 Jan. 1907. Folding berths for railway carriages, ships, etc., combined with hat and luggage racks. 1.

91. Killen, E. B.—17 Sept. 1907; UK. 22,864, 8 Nov. 1905. India-rubber tyre with external studs and oppositely placed internal air spaces, held by binding rings. 9.

92. Kahn, J.—17 Sept. 1907. Expanded metal made by slotting special ribbed section of rolled bar. 1.

93. Pataud, H.—17 Sept. 1907. Wheel tyre with air tight detachable rim. 1.

94. Burger, R.—17 Sept. 1907; UK. 17,460, 2 Aug. 1906. Double walled vessels, with vacuum between the walls, are strengthened by insertions between the walls. 1.

95. Mavrogordato, F. E.—21 March 1907. Hydrocarbon lighting apparatus with compressed air reservoir, pressure reducer, carburettor, vaporizer and extinguishing valve on air supply. 3.

96. Jones, T. F. G.—1 May 1907 Wheel spokes secured in hub by wedges which are tightened by screwed bolts. 2.

97. Taylor, W. F. C., & Matthews, F.—Sewage disposal.

98. Schuetz, F. A.—20 Sept. 1907; UK. 1051, 15 Jan. 1907. Signal lamp burner for round wicks with attachment to flatten the flame. 1.

99. Mosher, J. A.—20 Sept 1907; UK. 28,904, 18 Dec. 1906. Signal lamp burner for round wick with perforated cup attachment for preventing extinction by the charring 1.

100. Hamm, W. S.—20 Sept. 1907; UK. 28,901, 18 Dec. 1906. Signal lantern glass holding frames with flange aid pivoted catch 1.

101 Hamm, W. S.—20 Sept 1907; UK. 28,901, 18 Dec. 1906. Lamps or lanterns for railway, etc., purposes with internal perforated screens and baffles to control air circulation. 1

102. Toyoda, S.—9 July 1907. Circular loom with gyratory reed, gravity worked shuttle, shedding and reversing gear, and sectional circular warp tightener. 5.

103. Fortescue, A. J.—25 April 1907. Wheel tyres constructed in sections joined by bridge pieces. 2.

104. Dowling, T.—Perpetual motion.

105. Green, H. D., & Hoff, G.—6 July 1907. Railway pot sleepers and independent tie bars. 1.

106. Colquhoun, J. A.—5 April 1907. Coal shoots for loading boats from open ended or hopper railway wagons. 1.

107. Hozoor Meerza.—26 Sept. 1907; UK. 208, 3 Jan. 1907. Wire rope ways, details of rope suspension, passing places, travellers, grips, etc. 3.

108. Gifford, F. W & W. C.—28 March 1907: UK. 1969, 25 Jan. 1907. Cinematograph and railway carriage arrangements for producing illusion of travelling. 6.

109. Wallace, W. B.—28 March 1907; UK. 9645, 25 April 1906. Bridge charger guide on body of magazine rifles of Lee-Enfield type. 1.

110. Lamme, B. G.—20 Sept. 1907. Electricity—alternating current commutator type of machine applicable as motor or generator specially for railway use. 2.

111. Lamme, B. G.—20 Sept. 1907. Electricity—alternating current series motors with speed control by variable transformer connection. 1.

112. Lamme, B. G.—20 Sept. 1907. Electricity—alternating current commutator machines arranged to run as motors or generators and to have a braking effect, specially for railway propulsion. 3.

113. Lamme, B. G.—20 Sept. 1907. Electricity—motors of series type, specially for railway propulsion, arranged to act as generators for braking purposes. 1.

114. McMaugh, A. W., & Welch, R.—20 Sept. 1907. Railway signals given electrically on trains through sectional third rail when two trains are on the section. 1.

115. Imperial Writing Machine Co.—17 March 1908; UK. 2254, 6 Feb. 1907. Typewriter machine details for the type bar type. 11.

116. Simpson, C. C. W.—14 Aug. 1907; UK. 8777, 11 April 1906. Railway vehicle brake gear of the either side type. 1.

117. Bonami, I.—Locomotives.

118. Rees, E. S. G.—17 May 1907; UK. 4810, 27 Feb. 1906. Turbines and centrifugal pumps for liquids. 5.

119. Anderson, R. H.—12 April 1907; UK 25,158, 4 Dec. 1905. Rockdrills with removable bits, secured by tension member, for hand or machine drills. 1.

120. Reardon, R. E.—20 Dec. 1907. Rifle sight details for fine adjustments controlled by touch and form of sighting apertures. 1.

121. Kirkhope, K. M.—31 Aug. 1907. Railway vehicle buffers, with or without couplings combined, are carried by drawbars pivoted at or behind the centre of the buffer face. 1.

122. Prokash Chunder Chatterjee.—13 Aug. 1908. Loom with picking, shedding and slay motions worked from foot levers by cord connection and with connected warp and take-up rollers and measuring attachment. 1.

123. Wiart, E.—14 Jan. 1908; UK. 2111, 28 Jan. 1907. Vacuum produced in vessel by admitting steam to expel air and subsequent condensation of steam; applied for raising liquids. 1.

124. Pedersen, P. O.—19 April 1907; UK. 27,956, 7 Dec. 1906. Wireless telegraphy transmitter with operating key between transmitter and radiating apparatus or earth connection. 2.

125. Lawton, E. H.—24 Sept. 1907; UK. 25,871, 15 Nov. 1906. Advertising device consisting of envelope or wrapper and contents, slotted and stamped as described. 1.

126. Ross, G. D.—24 Sept. 1907; UK. 26,053, 17 Nov. 1906. Wheels for motor vehicles consisting of an inner pneumatic tyred wheel with an outer wheel or rim. 2.

127. Hamm, W. S.—18 Dec. 1907; UK. 2375, 30 Jan. 1907. Railway signal lamp with oil and electric light fittings arranged so that either can be brought into focus. 2.

128. Hamm, W. S.—18 Dec. 1907; UK. 2376, 30 Jan. 1907. Railway signal lamp coloured glass mounting and operating apparatus. 3.

129. Bennet, W. R. O'M.—Railway points.

130. Ralli Brothers.—29 Aug. 1907. Screening or sifting appliances for grain, etc., with shaking surfaces operated by wheel, etc., on which the grain falls from the shoot. 2.

131. Chloride Electrical Storage Co.—19 April 1907. Electric accumulators with barium or other insoluble sulphate mixed with the active material and with treated wooden separators. 1.

132. Lynn, T.—Furniture.

133. Ross, L. H. Hunt.—Nails.

134. Brooke, C. H.—Railway chairs.

135. Brooke, C. H.—Railway chairs.

136. Kapoor, Madan Lall.—Looms.

137. Sutton, G. W.—Tea, fermentation.

138. Muttra Pershad & Sheo Pershad.—Looms.

139. O'Callaghan, P. B., Hearn, P., & Segrue, M. T.—23 May 1907; UK. 19,591, 3 Sept. 1906. Safety oil lamp with reservoir for extinguishing liquid placed between the burner and the oil reservoir. 1.

140. James, H., & Waterfall, G. S.—Medicine.

141. Metcalfe, J. C., & R. D.—24 Sept. 1907; UK. 24,804, 5 Nov. 1906. Injectors with overflow valves in discharge and separate combining chambers and water inlet valve. 1.

142. Coutts, J.—24 Sept. 1907. Straw, etc., is compressed and destructively distilled to produce gas, etc., the heating of the retorts being arranged so that gas passes over heated material. 1.

143. Barabasz, M.—4 March 1908; UK. 8626, 10 April 1906. Buckle stamped in one piece from sheet metal. 1.

144. Richter, P.—24 Sept. 1907; UK. 29,373, 24 Dec. 1906. Fabric with woven front and felted back. 1.

145. Smith, E. W.—24 Sept. 1907; UK. 20,409, 13 Sept. 1906. Railway signalling—apparatus for delivering and receiving tablets, etc., to and from trains in motion. 10.

146. Maxwell, T., & Showers, D.—Rifle sights.

147. Griffith, W. M.—24 Jan. 1908. Hydraulic engineering—overflow shutters with connected hinged sections to maintain head and to open under excess head. 7.

148. Thomson, W., Blakiston, R., Hope, W., & Richards, G. B.—23 Dec. 1907; UK. 14,897, 19 July 1905. Meters for liquids of the differentiating or Deacon type. 14.

149. Weskin, H. E.—28 May 1907. Electricity—automatic replacement of blown fuses. 1.

150. Gillett, W., & Lehmann, M. D.—24 April 1907; UK. 23,547, 23 Oct. 1906. Carburettor of the float type for internal combustion engines. 1.

151. Dunz, W.—30 May 1907; UK. 29,200, 21 Dec. 1906. Flooring of concrete, etc., laid in sections between and over main supports. 1.

152. Wiart, E.—14 Jan. 1908; UK. 2242, 29 Jan. 1907. Vacuum production and application for raising liquids. Improvements on No. 123 of 1907. 1.

153. Karsam Soap Co.—24 Sept. 1907; UK. 7380, 27 March 1906. Soaps, lubricants, batching material, candle stock, etc., are produced by injecting the saponifiable material, with or without mineral oils below the surface of the lye in fine jets or spray. 1.

154. Poulsen, V.—30 July 1907; UK. 28,602, 14 Dec. 1906. Wireless telegraphy—electrical vibration generator with variable gas envelope. 1.

155. Fox, C. H.—14 Aug. 1907. Railway wagons with adjustable sides or stanchions. 2.

156. Still, W. M., & Adamson, A. G.—30 July 1907; UK. 6179, 23 March 1905. Incandescent gas burner with ring mantle and deflector. 1.

157. Hamm, W. S.—24 Sept. 1907; UK. 28,902, 18 Dec. 1906. Railway signal lamps, reflector support for. 1.

158. Hamm, W. S.—24 Sept. 1907; UK. 28,903, 18 Dec. 1906. Railway signal lamps, reflector support for. 1.

159. West, D. G., & Lewis, T. R.—10 Oct. 1907. Cotton gins—arrangement of movable grids and knives designed to prevent breakage of seed. 1.

160. Bunning, G. E.—1 May 1907. Wire fencing droppers. 1.

161. Marklew, J. D.—Liquid meter.

162. Firman, W. G.—26 Nov. 1907. Tea manufacture—regulation of fermentation temperature by circulation of water in hollow trays, etc. 1.

163. Bryers, J. J.—22 Aug. 1907. Ladders connected to and counterbalanced with trap doors, etc., to act as fire escapes or for other purposes. 2.

164. Kershaw, A. G., & Saxby and Farmer, Ld.—Railway points.

165. Burns, R.—20 Dec. 1907; UK. 4146, 19 Feb. 1907. Locomotive cab ventilation by cowls and pipes. 1.

166. International Cigar Machinery Co.—24 Sept. 1907. Cigar making machinery, bunching and wrapping arrangements. 13.

167. Aivaz, J., & Poljakoff-Kowtunoff, T.—24 Sept. 1907; UK. 27,634, 4 Dec. 1906. Metal punching machine with arrangements for spacing the holes according to the length of the work. 3.

168. Sinha, Radha Kissore.—Lamps.

169. Chevur Krishnachar Subba Rao.—Treadmills.

170. Martin, R. H.—19 Aug. 1907; UK. 16,590, 23 July 1906. Belt tensioning gear for railway train lighting dynamos. 3.

171. Company for General Trade, Ld.—22 Aug. 1907; UK. 17,643, 31 Aug. 1905. Electric locomotives for towing on canals of haulage on overhead rails, etc. 1.

172. Yusaf.—Cooling buildings.

173. Subba Row, K. G.—23 Aug. 1907. Tongs for holding cooking vessels. 2.

174. Gersténbergk-Zech, L. Von.—Dams and sluices.

175. Guanakan, D. S.—Disinfecting.

176 Pearse, N. P.—24 May 1907; UK. 909, 17 Jan. 1905. Cotton gin with multiple bladed roller cleaners, and with built up leather and hair rollers. 2.

177. **Longworth, A. E.**—30 Sept. 1907. Locomotive boiler with one or two vertical partitions forming chambers for heating feed water and superheating steam. 2.

178. **Christian, J. V.**—4 Oct. 1907. Bayonet holder for rifles. 1.

179. **McCarty Wireless Telephone Co.**—1 July 1907; UK. 5532, 7 March 1907. Wireless telephony. 2.

180. **Bentzon, M., & Emerson, A. H. Jr.**—24 May 1907; UK. 28,823, 29 Dec. 1904. Bi-focal lenses made without ridges by special grinding machinery. 2.

181. **Printing Machinery Co.**—8 Feb. 1908; UK. 22,419, 10 Oct. 1906. Stereotypes and means for drying, trimming, and cooling them. 7.

182. **Printing Machinery Co.**—1 Feb. 1908; UK. 22,420, 10 Oct. 1906. Stereotypes and means for drying, trimming, and cooling them. 4

183. **Angelini, G.**—24 Sept. 1907; UK. 8168, 4 April 1906. Microphone with carbon grains in closed chamber formed by flexible and fixed plates with felt, etc. 1.

184. **Melland, W., & Nield, W. H.**—24 Sept. 1907; UK. 13,646, 14 June 1906. Rope splicing device consisting of a flexible link coupling. Improvement on No. 1905. 2.

185. **Brindle, J. H.**—16 May 1907; UK. 8368, 7 April 1906. Spinning—"long collars" for the spindles of textile machinery. 1.

186. **Wilkins, G. W.**—6 June 1908. Fire proofing textile and other material by a solution of ammonium sulphate and phosphate.

187. **Hughes, A. T.**—16 May 1907; UK. 27,831, 6 Dec. 1906. Locking nuts by transverse screw in nut engaging across thread of the bolt. 1.

188. **Butler, T., & Butler Pumping Co.**—16 May 1907. Pumps or air lifts for water with air inlets spaced apart on the rising main. 1.

189. **Brauning, K. A.**—23 May 1907; UK. 5666, 8 March 1907. Automatic fire arms with special arrangement of breech block and firing pin mechanism. 1.

190. **Cook, G. H.**—28 Aug. 1907. Roofing tiles of special section. 1.

191. **Dorwald, G. L. M.**—19 Nov. 1907; UK. 11,404, 31 May 1905. Carburettor, for internal combustion engines using heavy oils, arranged for starting with lighter oils. 1.

192. **Gill, H., & Thompson, E. W.**—12 Nov. 1907. Cans and other receptacles are filled with definite quantities of oil, etc., on a counter-weighted platform, of which the descent closes the supply. 1.

193. **Vogelgesang, A.**—24 Sept. 1907. Electric insulating material prepared by heating fatty pitches preferably, residues from stearine candle manufacture, above 150°C.

194. **Symonds, Harris, & Co.**—Portmanteau.

195. **D'Cruz, J. W. A.**—12 July 1907. Water tank for street use with siphon discharge controlled by tilting trough for flushing purposes. 3.

196. **Fowler, F. D.**—7 Dec. 1907. Railway sleepers consisting of hollow boxes with T-shaped, etc., ties and rail fastenings. 2.

197. **Jewell, J. H.**—20 June 1907. Tea firing machine feeder or spreader with rocking trough and adjustable shoot. 1.

198. **Thakur Dutta Sharma.**—Medicine.

199. Andrews, E. J.—23 May 1907; UK. 23,626, 16 Nov. 1905. Fibre breaking, scutching, cleaning, etc., comb bar apparatus with cleaning arrangements for the teeth of the combs. 3.

200. Cox, F. J.—9 Dec. 1907; UK. 4828, 27 Feb. 1906. Carburettor for gas manufacture with moving screens in casing and liquid distributor. 1.

201. Board, T. H.—24 Sept. 1907. Seed yeast for working at high temperature prepared by fermenting successively in worts of high and low specific gravity and acidity.

202. Johnston, G.—5 June 1907; UK. 9970, 28 April 1906. Railway vehicle combined central buffer and automatic coupling. 2.

203. Cox Brothers, Ld., & McIntosh, D.—1 Feb. 1908; UK. 15,956, 14 July 1906. Loom for weaving seamless bags, sacks, etc., as a tubular fabric, interwoven at intervals to form the bottoms. 6.

204. Ross, J. W. G.—24 Sept. 1907; UK. 18,040, 6 Sept. 1905. Steam boiler with attachment for supplying liquid anti-incrustation composition. 1.

205. Hellberg, F. W., & Turner, C. W.—5 June 1907. Combined hammock and tent. 1.

206 Pearcy Lall.—20 Sept. 1907 Tea substitute consisting of dholphulli, gorakhpan (varieties of heliotrope) and moteli or liquorice root.

207. Kelway-Bamber, H.—Railway vehicles.

208. Lemon, W S.—22 Nov 1907. Cotton gin with beaters and with rollers or plucking fingers for drawing cotton through a fixed grid assisted by fan suction. 1.

209. Grogan, H. C.—22 June 1907 Bearings with hollow bolt to catch dirt or melted white metal. 1

210. Saunderson, H. P.—11 July 1907; UK 22,903, 16 Oct. 1906. Motor vehicles or tractors for agricultural, etc., purposes with three driven wheels. 2.

211. Marklew, J. D.—Valves.

212. Walke, C.—Gumming

213. Scrafton, Miss G E.—29 June 1907. Ladies' and children's undergarments, provision for suspenders and shoulder straps. 2.

214. Mono Service Vessels, Ld.—22 Nov. 1907; UK 14,465, 25 June 1906. Paper vessels specially applicable for delivery of milk to customers. 1.

215. Mono Service Vessels, Ld.—22 Nov. 1907; UK. 14,466, 25 June 1906. Paper vessels specially applicable for delivery of milk to customers. 1.

216. Mono Service Vessels, Ld.—22 Nov. 1907; UK. 23,374, 22 Oct. 1906. Paper vessels specially applicable for delivery of milk to customers. 1.

217. Intercontinental Railway Co.—26 Nov. 1907; UK. 4734, 26 Feb. 1907. Refrigerated railway vehicles with gas compression refrigerating plant driven from axle. 1.

218. Intercontinental Railway Co.—26 Nov. 1907; UK. 4735, 26 Feb. 1907. Refrigerated railway vehicles with gas compression refrigerating plant driven electrically from axle with thermostatic control. Improvement on No. 217 of 1907. 1.

219. Sulman, H. L.—22 Nov. 1907; UK. 21,672, 1 Oct. 1906. Zinc extraction process by treating roasted ores with sulphurous acid and precipitation as mono-sulphite by addition of oxide.

220. Edison Ore Milling Syndicate.—29 Nov. 1907; UK. 25,748, 11 Dec. 1905. Magnetic separator with tapering pole pieces inside and outside a hollow revolving drum. 1.

221. Green, B. K.—Air gas.

222. Klee, H.—23 Oct. 1907; UK. 5955, 13 Nov. 1905. Stone sheets made in a paper or like machine by supplying cement to the fibrous material while on the drum or band.

223. Gibb, A. S.—14 June 1907; UK. 9669, 25 April 1906. Hydraulic engineering, module with fixed weirs in semicircular chamber for delivering constant supply under varying head. 1.

224. Gilhooly, P. C.—Railways, sleepers.

225. Cosserat, W. A. P.—4 Dec. 1907. Railway signals with mechanically operative parts coupled at will by electromagnets in a control circuit. 1.

226. Davidson, S. C.—10 June 1907; UK. 16,345, 19 July 1906 Air heating stove, construction of tube and tube plates, defectors, flues and doors. 4.

227. Cotton, A. D.—Furniture

228. Austerlitz, A.—20 Sept. 1907; UK. 2050, 25 Jan 1906 Open frame for seed crushing presses 1.

229. Hatmaker, J. R.—19 Nov. 1907; UK. 4351, 2 March 1905. Flesh and other food is preserved by cooking, pulping and drying in thin films at 212° F. or above.

230. Marchal, A. C.—29 Nov 1907 Cigarette making machine of the paper tube type. 3.

231. Guenffet, J., & Nicault, J.—29 Nov. 1907; UK 1688, 22 Jan. 1907. Cigarette machinery; applying wax, gold, etc., to the ends of the paper tubes. 1.

232. Engineer, D. B.—8 Oct 1907. Cotton gin rollers built up of bamboo and paper on an iron spindle. 1.

233. Herrenschmidt, H.—7 Dec. 1907 Metals and metalloids are extracted from ores, etc., and corundum produced from the slag by electric or other smelting in presence of carbon and boron compounds. Alloys containing iron, silicon, boron, aluminium, etc., are produced.

234 Goodwin, J. M.—7 Dec. 1907 Railway wagons with pivoted bottom discharging doors. 3.

235. Symington, J.—Perpetual motion

236. Jussawala, K. S.—3 Aug. 1908. Tide mills with water-wheels arranged on ebb and flow reservoir to drive pumps for lifting water to an elevated reservoir. 2.

237. Fessenden, R. A.—22 June 1907; UK. 6203, 14 March 1907. Telegraphy and telephony with or without wires, receiving and retransmitting arrangements and control of impulses. 5.

238. Ashford, J.—14 Jan. 1908; UK. 24,551, 2 Nov. 1906. Loading arrangements for skips, buckets, etc., running on wire rope ways, rails, etc. 3.

239. Ashford, J.—14 Jan. 1908; UK. 25,550, 2 Nov. 1906. Wire rope way construction and loading arrangements. 4.

240. Murtough, H. A.—Railway signals.

241. Whyte, A.—27 Aug. 1907. Tea, coffee, etc., pots arranged to allow soaking for a definite time. Improvements on No. 117 of 1904. 1.

242. Dawes, R.—13 June 1907. Spinning, belt driving arrangement for ring spindles. 2.

243. Brown, H. E.—30 July 1907; UK. 11,501, 16 May 1906. Railway, brake appliances in which the tangential pull on the brake blocks is utilized to control the pressure. Improvements on No. 383 of 1905. 2.

244. J. Stone & Co., and Darker, A. H.—7 Dec. 1907; UK. 22,452, 2 Nov. 1905. Air moistening, filtering and attemperating apparatus for railway vehicles, ships, etc. 2.

245. Ames, R.—7 Dec. 1907; UK. 7286, 27 March 1907. Road sweeping and tarring apparatus. 2.

246. Johnson, H. H., & Moin, E.—7 Dec. 1907. Gas lamps are lighted and extinguished with the aid of a pilot light and variations of pressure in the mains. 2.

247. Bock, J.—7 Dec. 1907; UK. 5295, 5 March 1907. Large crystals are grown from crystal splinters in warm saturated solutions.

248. Eschalier, X.—7 Dec. 1907; UK. 25,647, 13 Nov. 1906. Cellulose and albuminoid bodies, which may be in the form of thread fabric, films, etc., are strengthened by the action of aldehydes, generally in conjunction with acids or dehydrants.

249. Imbert, A. C.—Baling press.

250. Lamb, W. W.—13 Dec. 1907. Burning vegetation, melting snow, etc., by petroleum burners on a self-propelled vehicle. 2.

251. Raven, V. L.—11 Sept. 1907; UK. 10,507, 4 May 1906. Railway signals, audible and visible on engines and trains operated electrically from line circuits. 4.

252. Raven, V. L.—11 Sept. 1907; UK. 14,089, 19 June 1906. Railway signals as in No. 251 of 1907 with improvements. 1.

253. Raven, V. L.—11 Sept. 1907; UK. 14,089A, 19 June 1706. Railway signals as in No. 251 of 1907 with improvements. 2.

254. Killen, E. B.—16 Dec. 1907; UK. 3446, 20 Feb. 1905. Railway and Tramway rail joints made with fish plates of shoe form. 1.

255. Suzuki, T.—6 Sept. 1907. Soy brewing tanks with attemperating and stirring apparatus. 2.

256. Walke, C.—2 Jan. 1908. Steam boiler economisers or feed water heater combined with arrangement for softening and purifying the water. 2.

257. Davis, R. E.—17 Aug. 1907; UK. 7529, 28 March 1906. Locking nuts by pin with cutting edge driven through transverse hole in nut so as to cut the threads of the bolt. 1.

258. Westinghouse Brake Co.—13 Dec. 1907; UK. 23,031, 18 Oct. 1906. Railway vehicle brakes of the differential compressed air or vacuum types, valve arrangements for. 2.

259. Chew, B. A.—4 March 1908. Cotton picking or harvesting machine with flexible tube having suction nozzle and mechanical pickers. 3.

260. Golland, H. S.—4 Oct. 1907; UK. 4848, 28 Feb. 1907. Spinning mules with arrangement for winding cross-wound cops. 7.

261. Maardt, J. G.—13 Dec. 1907; UK. 28,920, 18 Dec. 1906. Beer wort is prepared in a dry or nearly dry state by mixing malt extract with starch and treatment at defined temperatures for conversion into maltose and dextrin. A dry mixture of the wort and yeast is also prepared.

262. Jost, C.—17 Dec. 1907. Air is moistened and cooled by passing through an endless khus-khus or other belt dipping into water and revolving so that air passes first through the wetter side. 1.

263. Harichand Mancharam & Son.—16 March 1908. Padlock with solid or jointless covering. 1.

264. O'Brien, E. J.—27 June 1907; UK. 7544, 28 March 1907. Toothed cylinders for delinting cotton seed are made by knurling rollers working over spirally threaded surface. 2.

265. Silverwood, T. A.—27 June 1907; UK. 24,217, 30 Oct. 1906. Spring wheels for vehicles with spiral or leaf springs between spokes and rim. 2.

266. Silverwood, T. A.—27 June 1907; UK. 24,217A, 18 March 1907. Tyres for vehicles built up of metal rings or helices, filled in with fibre or other material. 1.

267. Martini, D.—13 Dec. 1907; UK. 13,840, 16 June 1907. Internal combustion engines. Air and crude or other petroleum, or their mixtures, are ionized electrically with the view of effecting the explosion. 1.

268. Pettigrew, J.—30 July 1907; UK. 16,743, 24 July 1906. Hopper discharging doors for railway vehicles and barges. 4.

269. Woods, M., & Gilbert, T. J.—6 Sept. 1907. Rail grinding machine for treating railway and tramway rails *in situ* to remove corrugations, etc. 2.

270. Little, J.—18 Dec. 1907. Air moistening and cooling apparatus consisting of revolving drum with longitudinal divisions and shells, dipping into water. 1.

271. Little, J.—18 Dec. 1907. Air and water cooling and air drying apparatus in which air is forced between sheets of porous material supplied with water from above and over drying reagents. 1.

272. Badische Anilin & Soda Fabrik.—28 Feb. 1908; UK. 14,955, 20 July 1905. Electric long flaming arcs, for nitric acid manufacture from air, etc., are produced in a tube insulated from one electrode. 1.

273. Badische Anilin & Soda Fabrik.—Electric furnace.

274. Parsons, H.—Wheels and tyres.

275. Kalle & Co.—3 April 1908; UK. 26,077, 17 Nov. 1906. Medicine—preparation of a fatty substance from micro-organisms, especially bacilli of leprosy and tuberculosis.

276. Bonnard, G. R., & Mackillop, G. H.—6 March 1908; UK. 25,601, 8 Dec. 1905. Ore stamping mills with cam arrangements for double lift and assisted fall. See also No. 465 of 1906. 2.

277.—Badische Anilin & Soda Fabrik.—Dyeing.

278. Wright, J. B., & Lawson, F. O.—15 Aug. 1907. Railway vehicle brakes are applied by abnormal movement of trucks opening the air valves. 2.

279. Gajendra Kumar Paul.—Harmonium.

280. Jenkins, F. C.—18 Dec. 1907; UK. 9343, 22 April 1907. Spirally wound wire is used instead of belting for driving ventilating fans. 1.

281. Featherstone, W. H.—18 Dec. 1907; UK. 18,926, 19 Sept. 1905. Fire extinction—trigger arrangement for automatically opening the hydrant valve when the hose is being brought into action. 1.

282. Borgnet, P.—6 Sept. 1907; UK. 9029, 18 April 1907. Electrolysis with floating revolving cathode and circulation of the electrolyte. 1.

283. Gambin, A.—16 July 1907; UK. 620, 9 Jan. 1906. Propellers, specially for submarine vessels, placed at the bows. 1.

284. Hulburd, P.—16 July 1907; UK. 24,484, 1 Nov. 1906. Flexible pipe with nozzles for use in removing sediment from steam boilers. 1.

285. Pintsch's Patent Lighting Co.—16 July 1907; UK. 7049, 23 March 1907. Lamps burning gas or vapour in inverted incandescent burners. 2.

286. Durham, T. O.—20 Dec. 1907. Razors with thin detachable blades. 1.

287. Chater, L., & Graham, G. E.—23 July 1907. Cotton gin rollers with flat strips on edge wound, or flat rings threaded, on to body, 'the strips or rings being made of leather, paper or other fibrous material. 1.

288. Rieley, J., Spiers, F. A., & Strettell, C. R. D.—18 Dec. 1907; UK. 11,113, 11 May 1906. Railway vehicle couplings of automatic type. 2.

289. Raky, A.—20 Dec. 1907; UK. 8072, 6 April 1907. Deep boring percussive apparatus, arrangements of the rocking beam and supports. 1.

290. Sandmann, D.—21 Dec. 1907; UK. 10,848, 9 May 1907. Indiarubber manufacture. Latex of rubber, etc., plants is coagulated with aid of additions of hydrofluoric acid or other fluorine compounds.

291. Goold, L. W.—Fibre.

292. Wrench, J. M. D.—Coaling crane.

293. Imperial Automatic Light, Ld.—Acetylene.

294. Richards, F. G.—12 Aug. 1907; UK. 2741, 5 Feb. 1906. Railway carriage clerestory windows arranged to open in the direction most suitable for ventilation. 1.

295. Severin, H.—11 Nov. 1907. Glass manufacture, machine with divisible moulds for blowing bottles and other hollow articles. 1.

296. Courtecuisse, V.—14 Sept. 1907; UK. 10,088, 1 May 1907. Yarns and fabrics are singed by passing through or over tubes heated by electricity. 1.

297. Ram Lal Das.—5 Feb. 1908. Musical instrument of the monochord type with stop carried by revolving cylinder. 1.

298. Parker, T.—27 Aug. 1907; UK. 14,365, 22 June 1906. Coke is made from coal by distillation at about 800° F. until evolution of rich gas ceases.

299. Dennett, R. J.—Railway signals.

300. Marden, O. W.—14 Aug. 1907; UK. 9122, 20 April 1907. Boot and shoe soles with a bristle or "pile" under surface.

301. Pearce, W. G., & Reeves, W. R.—20 Sept. 1907; UK. 3679, 14 Feb. 1906. Railway and other signal recording apparatus, electrically operated. 5.

302. Mulcahy, D.—26 July 1907. Sash fasteners for railway carriage windows, etc., with pivoted catches or tumblers engaging racks. 1.

303. Phelps & Co.—23 Aug. 1907. Cap bands and peaks made with a foundation of hair cloth. See also No. 81 of 1907.

304. Ebrahim & Shaik Jaffer.—24 Jan. 1908. Warping machine with leasing mechanism operated by serpentine groove in which two runners alternately engage. 1.

305. Ebrahim & Shaik Jaffer.—24 Jan. 1908. Robbin winding machine with reciprocating thread guide driven by cam groove in the driving gear. 1.

306. Watson, L. P.—25 Feb. 1908. Rifle or carbine holder for use on foot or horseback consisting of bucket and belt-loop with straps. 1.

307. Okazaki, K.—14 Sept. 1907. Nitrogenous products are prepared from barn, oil cake, etc., by the action of "Okazaki" fungus of the *aspergillus* genus grown on bran.

308. Karter Singh.—23 Oct. 1907. Disinfectant consisting of an emulsion of petroleum oils in a dilute soap solution.

309. Dowe, A. W.—Locks.

310. Whittle, T.—14 Sept. 1907; UK. 14,706, 17 July 1905. Route and speed indicator for use on ships with or without automatic operation from log or engines. 2.

311. Lock, W. H., Holbourne, J. G., & Longhurst, H. A.—24 Jan. 1908; UK. 23,485, 15 Nov. 1905. Linotype escapement mechanism. 1.

312. Mein, T. O.—14 Aug. 1907; UK. 11,508, 15 May 1907. Railway wagon and and other fall-down doors and flaps with spring attachment to control opening and closing. 1.

313. Murray, W. E.—Buoys.

314. Swales, F.—9 Aug. 1907; UK. 18,657, 20 Aug. 1906. Bits of combined snaffle and curb type for riding or driving. 1.

315. Gell, W. J., & Boham, J. F.—14 Aug. 1907; UK. 11,458, 16 May 1907. Umbrellas and parasols with cord and lever attachment for releasing the top runner from the handle. 2.

316. Gray, B. P.—29 Jan. 1908; UK. 5293, 6 March 1907. Horse shoe with indiarubber heel pad attachment. 2.

317. Loebbecke, G.—29 Jan. 1908; UK. 11,403, 15 May 1907. Paper bags made of craped or goffered paper prepared by treatment while wet and during drying.

318. Mehta, M. C., & The Sayajee Loom Works, Ld.—10 Aug. 1907. Weaving, take up motion for hand or other looms adjustably worked and controlled by ratchet gearing from the slay. 1.

319. Mangrulkar, G. R.—Match manufacture.

320. Albrecht, H. C.—12 Aug. 1907; UK. 15,295, 5 July 1906. Incandescent mantles for lighting prepared by impregnating nets with solutions of nitrates of thorium and cerium, drying, impregnating with hydrogen peroxide, drying, burning and calcining.

321. Stevenson, A. F.—30 Jan. 1908; UK. 2887, 5 Feb. 1907. Vehicle wheels with pneumatic hubs. 2.

322. Ward, J.—3 March 1908. Tar paving made with various grades of stone and machine for delivering materials and laying them. 1.

323. Kaufman, A. G., Weil, B. L., & B.—2 Aug. 1907. Bottle stopper or seal consisting of metal cap which is pressed over to grip the bottle mouth. 1.

324. Wilkinson, G.—31 March 1908; UK. 13,367, 11 June 1906. Feed water heaters for steam boilers, etc., with de-aërating device, trays and mud catcher placed in the steam space of the boiler. 6

325. Steele, J. T.—29 Jan. 1908. Locking device for loose leaf ledgers and similar books. 2.

326. Baronio, A. C.—19 May 1908; UK. 21,846, 26 Oct. 1905. Wireless telegraphy, receivers and transmitters with tape perforating arrangements. 3.

327. **Ludvigsen, E.**—9 Aug. 1907; UK. 940, 13 Jan. 1906. Cash tills with registering, receiving, change giving and disinfecting arrangements. 3.

328. **Staunton, J. L.**—4 Feb. 1908; UK. 11,344, 23 May 1907. Tea, etc., drying apparatus with air heating pipes heated by hot water. 1.

329. **Sadiq & Co.**—27 Sept. 1907. Polo stick made with two canes. 1.

330. **Walker, F. S., & Prince, C. S.**—14 Dec. 1907. Latrines or commodes with two pans and special form of seat. 1.

331. **Rees, E. S. G.**—15 Aug. 1907; UK. 22,490, 11 Oct. 1906. Rotary condensers and condensing steam turbines. Improvements on No. 118 of 1907. 2.

332. **Stephens, W. C.**—15 Aug. 1907; UK. 2141, 27 Jan. 1906. Rock drills and other machines with adjustable slides or guides to provide for wear. 1.

333. **Belanger, V.**—1 Feb. 1908. Spinning—traveller retaining device consisting of a split flanged ring. 2.

334. **Burn & Co.**—23 Oct. 1907. Press, for baling jute, expressing oil, etc., of the geared toggle lever type with the toggles operated through bent levers and chains from hydraulic cylinders or drums driven by hand or power. 4.

335. **Roth, G.**—20 Sept. 1907; UK. 16,245, 18 July 1906. Railway vehicle couplings of the automatic type. 3.

336. **Davidson, S. C. & J. S.**—22 Aug. 1907; UK. 15,325, 5 July 1906. Tea, etc., drying apparatus of the type in which the material is carried by endless webs of trays through the drying chamber. Improvements on Nos. 100 of 1892, 354 of 1894, and 153 of 1898. 2.

337. **Anna, A. M., Countess Sponneck Mayer.**—22 Aug. 1907; UK 11,590, 2 June 1905. Rotary engines with revolving cylinders and piston rods constrained by cam grooves and connections. 3.

338. **Hoxie, G. H.**—23 Oct. 1907. Projectile with metal casing filled with softer metal having a chamber and striking piece at the nose. 1.

339. **Clark, G.**—25 Oct. 1907. Armoured concrete building construction. 2.

340. **Tate, A. O.**—25 Feb. 1908. Bifunctional electrolytic plates, for purifying treatment of water and other purposes, built up of thin anode and cathode plates. 3.

341. **Minck, P. H.**—1 Feb. 1908. Fibre is separated from cotton seed hulls and similar material in beater apparatus with the aid of air draught. 1.

342. **Renard Road and Rail Transport Corporation.**—24 June 1908. Motor road vehicles and trains, vehicles with six wheels and compensating spring arrangements, coupling arrangements for driving all the axles, and steering devices. 2.

343. **Rabone, H. J.**—11 Sept. 1907; UK. 11,205, 14 May 1907. Metal measuring tapes with intaglio and relief arrangement of divisions and figures. 1.

344. **Kedarnath Chackravarti.**—Spinning wheel.

345. **King, C.**—28 Aug. 1907; UK. 14,338, 22 June 1906. Wheel tyres constructed as described in No. 24 of 1907, with renewable tyres. 1.

346. **Moyet, J. B., & Bouvier, H.**—9 Oct. 1907; UK. 4247, 20 Feb. 1907. Railway vehicle automatic couplings of the hook type. 3.

347. **Scott, C. F.**—8 Feb. 1908; UK. 14,752, 26 June 1907. Telegraph, telephone and other circuits are protected from effect of power or other circuits by arrangements of transformers and other induction devices. 1.

348. Scott, C. F.—8 Feb. 1908; UK. 14,753, 26 June 1907. Similar to No. 347 above. 1.

349. Mitchell, H. C.—9 Dec. 1907; UK. 22,106, 6 Oct. 1906. Printing process using lamp black or other dry powder.

350. Mitchell, H. C.—9 Dec. 1907; UK. 15,241, 4 July 1906. Printing process using a smoking or spraying operation followed by coating with varnish, etc.

351. Haywood, T. E., and McKenzie & Holland, Ld.—25 Feb. 1908; UK. 28,830, 18 Dec. 1906. Electric treadle switch for railway signalling. 3.

352. Mitchell, W. A.—25 Feb. 1908. Covers and discharging devices for drums, steel casks, etc. 1.

353. Duckett, J.—23 April 1908. Spinning, doubling, twisting and hank winding spindle apparatus. 2.

354. Nil Kunth Nundy.—25 May 1908. Flexible tubes for hookahs made by strip winding machines. 1.

355. Gavin Jones, T. F., & Matthews, F.—28 Feb. 1908. Lid closing device for sanitary buckets, carts, etc. 2.

356. Dutton, S. T.—18 Feb. 1908. Railway signal wires, posts and pulley supports for. 2.

357. Ross, A. J.—13 Dec. 1907. Pumps with oscillating cylinders. 1.

358. Warmsley, A. H.—25 Feb. 1908; UK. 13,728, 13 June 1907. Oil gas carburettor with automatic valve arrangements for controlling the supply. 3.

359. Gill, J.—25 Feb. 1908; UK. 27,284, 30 Nov. 1906. Rotary engine pump, etc., of the crescent chamber type. 1.

360. Brown, R.—25 Feb. 1908; UK. 15,252, 25 July 1905. Electric switch for road contact system of electric traction operated by bar on vehicle. 1.

361. Brown, R.—25 Feb. 1908; UK. 1818, 24 Jan. 1906. Similar to No. 360 above. 2.

362. Dow, A.—25 Feb. 1908; UK. 11,273, 14 May 1906. Pneumatic tyres containing a sealing compound of fluid and feathers or other fibres. 3.

363. Auto Strop Co.—25 Feb. 1908. Safety razors. 2.

364. Robertson, J.—8 Feb. 1908; UK. 26,057, 17 Nov. 1906. Spinning machines with double set of spindles mounted so that either may be brought to the flyer. 2.

365. Russell, F.—3 March 1908; UK. 14,545, 24 June 1907. Gate of folding bascule type with means for opening from a distance. 2.

366. Gray, C. H.—31 March 1908. Railway buffers with rubber vulcanised on to metal plates. 1.

367. Laforet, J.—5 Sept. 1907; UK. 16,001, 11 July 1907. Loom shuttle brakes. 5.

368. Huizer, H. P.—13 Sept. 1907; UK. 14,673, 25 June 1907. Drinking cups or vessels are made of ice. 2.

369. Narain Sing.—Boots and shoes.

370. Jotindra Nath Banerjee.—23 July 1908. Oil lamp burners with adjustable sides for use without chimneys. 1.

371. Dowe, A. W.—Railway wagon door locks.

372. Jones, W. C.—Fabrics.

373. May, M. Von, & Werkenthin, C.—13 Sept. 1907; UK. 1583, 21 Jan. 1907. Building construction for barns, etc., with wooden frames on concrete, etc., base. 1.

374. British Insulated & Helsby Cables, Ld.—27 Nov. 1907. Telegraph polarized receiver capable of working without a relay. 3.

375. Lawrence, S. S.—19 Dec. 1907. Dust and glare protectors or goggles for personal wear. 1.

376. Thom, T. M.—10 March 1908; UK. 9633, 25 April 1907. Artificial stone made from lime and stone chips by gradually increasing the carbonating pressure.

377. International Marine Signal Co.—10 March 1908; UK. 14,663, 25 June 1907. Fog signals with explosion devices acting through a bell or otherwise for land or marine use. 4.

378. Gillies, J. St. C.—10 March 1908. Fibre decorticating and treating apparatus with knives, brushes and twisting devices. 4.

379. Friend, J. E.—11 March 1908. Rotary gas engine of the annular chamber type. 6.

380. Riley, J., Spiers, F. A., & Strettell, C. R. D.—11 March 1908; UK. 15,902, 13 July 1906. Railway vehicle automatic couplings of double hook types. 3.

381. Société Française des Wagons Aerothermiques.—10 March 1908; UK. 13,603, 12 June 1907. Refrigerating apparatus with automatic stop valve. 1.

382. Geo. Brunton & Son.—19 March 1908. Chain pumps or water lifts, construction of discs and connections. 1.

383. Kirloskar, L. K.—1 April 1908. Chaff or fodder cutter with pivoted knife worked by hand. 1.

384. Lee, H.—12 Dec. 1907. Rotary engine of crescent chamber type. 2.

385. Declozets, L. P.—25 Nov. 1907. Fuel briquettes made of paddy husk and clay.

386. Sayer, R. C.—23 Dec. 1907; UK, 18,021, 11 Aug. 1906. Vehicles adapted for use on rail or road. 3.

387. Trevor, E. W. J.—20 Sept. 1907; UK. 337, 5 Jan. 1907. Nut breaking and kernel extracting machine in which the nuts are fed and held between bars under strikers. 2.

388. Brown, F. C.—4 Oct. 1907. Gold, silver, etc., ore treatment process and apparatus, embodying amalgamation, cyaniding and electrolysis. 3.

389. Brooke, R. G., & Fell, G. P. B.—10 March 1908; UK. 14,770, 26 June 1907. Railway, etc., brake apparatus, brake cylinder and packing. 1.

390. Thorn, W., & Mann, M. F.—17 March 1908; UK. 8130, 4 April 1906. Railway vehicle couplings with automatic actuating attachments for ordinary type of hook and chain. 2.

391. Scott, R.—19 March 1908. Electric flaming arc lamps. 5.

392. Grob, H.—19 March 1908; UK. 14,059, 18 June 1907. Battery and charging arrangements for lighting and heating vehicles. 1.

393. Ransome International Conduit Co.—4 Oct. 1907. Conduit moulding apparatus for building concrete conduits *in situ*. 8.

348. Scott, C. F.—8 Feb. 1908; UK. 14,753, 26 June 1907. Similar to No. 347 above. 1.

349. Mitchell, H. C.—9 Dec. 1907; UK. 22,106, 6 Oct. 1906. Printing process using lamp black or other dry powder.

350. Mitchell, H. C.—9 Dec. 1907; UK. 15,241, 4 July 1906. Printing process using a smoking or spraying operation followed by coating with varnish, etc.

351. Haywood, T. E., and McKenzie & Holland, Ld.—25 Feb. 1908; UK. 28,830, 18 Dec. 1906. Electric treadle switch for railway signalling. 3.

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353. Duckett, J.—23 April 1908. Spinning, doubling, twisting and hank winding spindle apparatus. 2.

354. Nil Kunth Nundy.—25 May 1908. Flexible tubes for hookahs made by strip winding machines. 1.

355. Gavin Jones, T. F., & Matthews, F.—28 Feb. 1908. Lid closing device for sanitary buckets, carts, etc. 2.

356. Dutton, S. T.—18 Feb. 1908. Railway signal wires, posts and pulley supports for. 2.

357. Ross, A. J.—13 Dec. 1907. Pumps with oscillating cylinders. 1.

358. Warmsley, A. H.—25 Feb. 1908; UK. 13,728, 13 June 1907. Oil gas carburettor with automatic valve arrangements for controlling the supply. 3.

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360. Brown, R.—25 Feb. 1908; UK. 15,252, 25 July 1905. Electric switch for road contact system of electric traction operated by bar on vehicle. 1.

361. Brown, R.—25 Feb. 1908; UK. 1818, 24 Jan. 1906. Similar to No. 360 above. 2.

362. Dow, A.—25 Feb. 1908; UK. 11,273, 14 May 1906. Pneumatic tyres containing a sealing compound of fluid and feathers or other fibres. 3.

363. Auto Strop Co.—25 Feb. 1908. Safety razors. 2.

364. Robertson, J.—8 Feb. 1908; UK. 26,057, 17 Nov. 1906. Spinning machines with double set of spindles mounted so that either may be brought to the flyer. 2.

365. Russell, F.—3 March 1908; UK. 14,545, 24 June 1907. Gate of folding bascule type with means for opening from a distance. 2.

366. Gray, C. H.—31 March 1908. Railway buffers with rubber vulcanised on to metal plates. 1.

367. Laforet, J.—5 Sept. 1907; UK. 16,001, 11 July 1907. Loom shuttle brakes. 5.

368. Huizer, H. P.—13 Sept. 1907; UK. 14,673, 25 June 1907. Drinking cups or vessels are made of ice. 2.

369. Narain Sing.—Boots and shoes.

370. Jotindra Nath Banerjee.—23 July 1908. Oil lamp burners with adjustable sides for use without chimneys. 1.

371. Dowe, A. W.—Railway wagon door locks.

417. Mooney, E.—25 March 1907; UK. 9993, 30 April 1907. Lubricators for railway axles with pad carried by a flexible cradle. 2.

418. Cantwell, E. L.—7 Nov. 1907. Roofing, various methods of securing corrugated or plain roofing sheets. Improvements on No. 601 of 1906. 1.

419. Hara Dhon Mandal.—25 Jan. 1908. Press for jute, etc., with levers drawn together by rope and pulleys. 1.

420. Rolfe, J. H. H.—Tea rolling machine.

421. Humphrey, H., & Cerasoli, A.—30 Oct. 1907; UK. 20,736, 18 Sept. 1906. Pump or water lift in which the water is lifted by direct action of gas explosion. 1.

422. Lines, A., & Kirke, E. St. G.—26 Nov. 1907. Water waste preventer consisting of alternately filled chambers and distributing cock. 1.

423. Cumberland, P. E. G.—22 Nov. 1907. Corrosion in boilers, ships, etc., is prevented by electrolytic means. 2.

424. Kanhaiya Lal.—Perpetual calendar.

425. Sheehan, F. A.—25 Oct. 1907. Cock with sliding tubes arranged to be flush with the vessel when closed. 1.

426. Westinghouse, G.—8 April 1908. Coiled spring and friction device especially for buffers and couplings of railway vehicles. 1.

427. Ravelli, A.—8 April 1908; UK. 16,691, 23 July 1907. Wave motors with inclined yielding surfaces. 7.

428. Antoine, V.—28 Oct. 1907. Water settling apparatus, specially for use in paper mills, consisting of conical upward flow vessels with means for supplying chemicals. 1.

429. Rendle, J. E., & Callow Wright and Howlett, Ld.—18 Dec. 1907; UK. 12,220, 25 May 1906. Glass tiles with grooved backing composition to aid in attachment to walls, etc. 1.

430. Scott, R.—6 May 1908. Electric flaming arc lamps. 2.

431. Marklew, J. D.—7 May 1908. Liquid measure or water waste preventer with single chamber and alternately actuated valves. 1.

432. Bawa Budh Singh.—11 May 1908. Folding punkah. 1.

433. Lecoche, J.—Worm gearing.

434. Holmes, A.—Fastenings.

435. Burn & Co.—20 Dec. 1907. Jute breaking appliance with clamp for holding and drawing a number of sticks under a roller. 2.

436. Luttrell, A. E.—2 Jan. 1908. Rotary pump of crescent chamber type. 2.

437. Goodwin, F.—Milk pan.

438. Sutton, L. H.—Tea packing.

439. Tress & Co.—3 March 1908; UK. 4223, 20 Feb. 1907. Hats with adjustable stiffening pieces to facilitate fitting. 1.

440. Steele, E.—15 July 1908; UK. 4114, 19 Feb. 1906. Explosives containing nitrated resin and starch, and chlorates, permanganates or nitrates to which aluminium or magnesium may be added.

441. Netto, C. B.—Punkah.

442. Soruj Bali.—Flour mills.

443. Haughton, W. R.—25 Jan. 1908. Railway sleepers cast in box form with adjustable jaws and keys. 1.

444. Ashutosh Pollay & Wooma Churun Deshi.—Jute press.

445. Arsiwalla, S. C.—Electric conductors.

446. Kartar Singh.—9 May 1908. Tar preparation for expelling rats.

447. Brown, S. G.—13 Dec. 1907; UK. 23,251, 19 Oct. 1906. Telegraphy, utilisation of discharge currents in cables for signalling by a re-action circuit. 1.

448. Roberts, H. I.—31 March 1908; UK. 18,748, 28 Aug. 1907. Cotton and other presses of the toggle lever type with the box in sections which are removable when filled. 3.

449. Ceipek, N.—21 April 1908; UK. 7838, 3 April 1907. Explosives containing ammonium nitrate and carbonized turmeric to which trinitrophenol or toluene may be added.

450. Woodhouse, A. A.—21 April 1908. Cartridge carrier specially for revolver cartridges. 1.

451. Friestedt, A. A.—2 Jan. 1908. Metal sheet piling of channel section units with clips. 2.

452. Hayes, J. A. E.—Railway coupling.

453. Whitney, A., & Shephard, T. F. G.—22 Nov. 1907. Railway point and signal, electric operating and controlling arrangements. 1.

454. Stephens, W. C.—16 Nov. 1907; UK. 8634, 13 April 1907. Rock drill of percussive type with air passage through the bit for blowing away cuttings. See also No. 255 of 1904. 1.

455. Ganagdhar Ramchandra Mangrulkar.—17 March 1908. Matches with grass splints as described in No. 226 of 1906 and No. 319 of 1907. The ends of the splints are now boiled in wax.

456. Broughton, D. McD. British Sigarera, Ld.—31 Oct. 1907; UK. 6096, 13 March 1907. Clutch or friction driving with expanding belt inside the driven box part. 4.

457. Bartlett, L.—31 Oct. 1907. Bottle seal or stopper with a lined cap which is crimped on to the bottle neck. 1.

458. William Beardmore & Co., Ld., & Banks, A.—21 April 1908; UK. 19,441, 31 Aug. 1906. Ordnance mountain equipment, handling appliances for the gun. 2.

459. Bremberg, A.—21 April 1908; UK. 9069, 19 April 1907. Ordnance mountain equipment, strap fastener. 1.

460. Stewart, C. P.—22 Jan. 1909. Sugar synthesis by combination of C. H. C. O. and C2 H2 under electric and magnetic influences. 1.

461. Neumann, C.—30 April 1908. Air compressor of the multi-stage type with hinged pistons. 4.

462. Burn & Co.—20 Dec. 1907. Fibre decorticating machines with water sprayed on the rollers to prevent adherence of fibre. 1.

463. Siemens Brothers & Co., & Ferreira, L. de M. G.—16 Nov. 1907; UK. 19,493, 30 Aug. 1907. Railway point and signal electrically operated interlocking apparatus. 1.

464. Harichand Mancharam & Son.—16 March 1908. Locks of the lever type with two bolts shot by separate keys. 1.

465. Angammul.—Water-lift.

466. Lakhman Mulji.—16 Dec. 1907. Brick kilns of continuous type, arrangement of draught and of bricks. 3.

467. Austerlitz, A.—11 Nov. 1907; UK. 10,860, 9 May 1907. Oil pressing process and plant. 2.

468. Murray, W. E.—23 May 1908; UK. 10,418, 3 May 1906. Floating breakwaters, buoys and similar structures. See also No. 313 of 1907. 5.

469. Place, R. H., & Crawshaw, G.—19 May 1908; UK. 19,921, 7 Sept. 1906. Loom dobbies. 2.

470. Imperial Writing Machine Co.—9 Dec. 1908; UK. 2254A, 29 Jan. 1907. Typewriter details. 3.

471. Jackson, E. L.—19 Nov. 1907. Hinges of rising type with screw pin. 1.

472. Spalding, H. H.—Valves.

473. Suresh Chandra Roy.—27 Nov. 1907. Oil lantern as described in No. 156 of 1900 of triangular form with pivoted handle and improved wick feed and guard. 1.

474. Strickland, H. F.—Road vehicles.

475. Notcutt, W. P.—21 Nov. 1907; UK. 10,932, 10 May 1907. Files and rasps with rows of teeth curved in opposite directions on their two sides.

476. Marconi's Wireless Telegraph Co.—6 May 1908; UK. 8463, 11 April 1907. Wireless telegraph transmitters with rotating discs between two fixed or rotating discs, balls, etc. 1

477. Borner, O. L., & The Diesel Engine Co.—26 Nov. 1907; UK. 21,254, 25 Sept. 1906. Internal combustion engine working on the two stroke cycle with auxiliary valve controlled inlets. 1.

478. Bellini, E., & Tosi, A.—6 May 1908. Wireless telegraphy with direction controlled by closed oscillation circuits in vertical planes in the aërials. 1.

479. Metallurgiska Patentaktiobolaget.—23 Nov. 1907; UK. 210, 3 Jan. 1907. Magnetic separator of the wet type for treating one pulp and making three classes. 2.

480. Bas, E. L., & Garratt, E. A.—23 Nov. 1907; UK. 6212, 14 March 1907. Sheet piling with alternate H. and locking sections, the latter made by doubling over the flanges of H. sections. 1.

481. Renwick, W. B.—22 Nov. 1907. Sugarcane mills of the portable vertical type with adjustment for front or feed roll. 1.

482. Winby, L. P.—13 Dec. 1907. Lubricators for moving parts of machinery with cap recessed to guide the moving lubricant to the duct. 1.

483. Millar, S.—30 May 1908; UK. 13,070, 5 June 1907. Harvesting machine for reaping and binding grain crops in which the stalks are kept vertical. 10.

484. Finkler, D.—5 Aug. 1908; UK. 22,195, 8 Oct. 1907. Bran and other grain, pulse and like products are rendered digestible by separate or combined chemical and mechanical action action designed to break the cell walls.

485. Wood, E. J., & Carson, G.—30 May 1908; UK. 23,746, 25 Oct. 1906. Axle box of special form with revolving disc on journal for lifting the lubricant centrifugally. 2.

486. Knight, S. H., & Lightband, C. D.—26 Aug. 1908. Leather made from stomachs of animals with rough surface preserved.

487. Gillibrand, F., & Buckley, H.—30 May 1908; UK. 6989, 23 March 1905. Fabric starching machine for piece goods with one dipping roller and three pressing rollers. 1. a

488. Giovanni, G. C. fu.—27 Feb. 1908; UK. 15,088, 1 July 1907. Bodies are embalmed by dipping in solutions of corrosive sublimate or formaldehyde materials.

489. Pradeau, C. W.—4 Dec. 1907; UK. 24,218, 30 Oct. 1906. Clutch consisting of drum with internal friction segments operated by cams. 2.

490. Marklew. J. D.—Leaf turner.

491. Eufon Co.—30 May 1908; UK. 1915, 25 Jan. 1907. Gramophones without trumpets, construction and regulation of needle supports, springs, tensioning, and sound box. 1.

492. Duckett, J., & F. J.—10 June 1908. Ring spinning doubling and twisting spindle, gearing and copwinding appliances. 1.

493. Lindsay, J., & R.—5 May 1908. Trolley pole for electric vehicles arranged to telescope or collapse if the trolley leaves the wire. 1.

494. Kirby, W. A.—3 June 1908. Wire compensators with leak-off cylinder arrangement. 2.

495. The New Oil Refining Process, Ld.—6 Dec. 1907; UK. 21,060, 23 Sept. 1907. Mineral oil is refined by blowing air and inlet gas through the heated oil in the still. Improvements on No. 554 of 1906.

496. Royal-Dawson, W. G., & Nesfield, A. C.—6 Dec. 1907; UK. 7046, 23 March 1907. Carburettor of the spray type for oil engines, etc., heated by exhaust. 1.

497. Macmillan, D.—23 March 1908. Propeller shaft bearing arranged for lubrication and to keep out water. 1.

498. Angus, A. R.—17 Jan. 1908; UK. 8033, 3 April 1906. Railway vehicles with divided axles and means for altering the gauge. Improvements on No. 581 of 1905. 5.

499. Butlin Gear, Ld.—21 Jan. 1908. Clutch for motor cars, etc., with radially moving catches worked by slides working longitudinally on the shaft. 2.

500. Auto Strop Co.—26 Aug. 1908. Stropping appliance for blades of safety razors. 1.

501. Imperial Writing Machine Co.—9 Dec. 1908; UK. 2254-b., 29 Jan. 1907. Typewriters, ink ribbon details. 5

502. B. S. Gulam Hoosain Sahib.—Chain pump.

503. B. S. Gulam Hoosain Sahib.—Road vehicles.

504. Lamont, W., & Michie, D. K.—19 Dec. 1907. Tea rolling machine with corrugated table. 1.

505. Felt, W. O.—13 Dec. 1907. Air and gas is compressed, cooled, dried and purified by injecting glycerine into the compression cylinders. 1.

506. Linotype and Machinery Ld.—28 July 1908; UK. 19,026, 23 Aug. 1907. Linotype magazine storing arrangements. 3.

507. Zucker, A.—30 May 1908; UK. 18,173, 13 Aug. 1906. Baths in which generation of carbonic acid is locally controlled.

508. Mahomad Hyat & Brothers.—4 Jan. 1908. Ball bearings for horizontal and vertical shafts of Persian wheels, etc. 1.

509. Briscoe, R.—6 July 1908. Mixing or tea-blending machine of the drum type with attached sieve receptacles and with toothed and fan agitators. 1.

510. Godrej, P. B.—1 June 1908; UK. 7365, 27 March 1906. Safes are made by bending a notched channel section bar, of which one flange is at distance from the edge. See also No. 479 of 1905 and No. 273 of 1906. 1.

511. Ausootosh Mookerjee.—30 Jan. 1909. Paint, oil, etc., removing composition.

512. Sutton, G. W.—Agricultural appliances.

513. Pettigrew, J.—13 Dec. 1907; UK. 8927, 17 April 1907. Railway wagon door fastening with pivoted stops held by handle bearing on the framing. 1.

514. Pettigrew, J.—13 Dec. 1907; UK. 8928, 17 April 1907. Railway vehicle continuous draw gear couplings. 1.

515. Meyer, R.—6 June 1908. Spinning—drawing apparatus with lower pair of rollers opened at intervals to allow twist to pass. 1.

516. Ewin, A.—Railway wagon locks.

517. Keating, B. F.—12 Dec. 1907. Phonograph starting and stopping arrangements. 1.

518. Washington Licht Gesellschaft.—23 Dec. 1907; UK. 22,035, 5 Oct. 1907. Oil vapour lamp, as described in No. 342 of 1906, with tapered mixing tube and improved nozzle. 1.

519. New Phonophore Telephone Co.—23 Dec. 1907; UK. 997, 13 Jan. 1906. Telephone circuits, connection of transformer and phonophore windings. 1.

520. Martin, R. H.—11 June 1908; UK. 25,047, 7 Nov. 1906. Railway point and signal electric controlling locking and interlocking appliances. 6.

521. Imray, A. J.—Tea withering.

522. Briggs, R. V.—10 March 1908. Pruning shears with hook and curved blade, operated by lever and link, for indigo plants., etc. 1.

523. Collins, D. F.—24 June 1908. Pump or waterlift with endless absorbent band drawn between squeezing devices to remove water. 1.

524. Whitehead, H. E.—2 May 1908. Breaking apparatus with revolving pivoted beaters for treating fibrous materials before retting. 1.

525. Lafontaine, L. M.—19 Dec. 1907; UK. 2989, 7 Feb. 1906. Electrolytic copper process for ore and metal; electrolyte treated with barium peroxide and carbon; anodes may be of briquetted ore.

526. Kinney, J. R.—19 Dec. 1907; UK. 22,223, 8 Oct. 1907. Rotary engine or pump of the crescent chamber type. 2.

527. Michaud, G., & Delascon, E.—20 Dec. 1907; UK. 22,036, 5 Oct. 1907. Filaments for electric or gas lighting are prepared by squirting mixtures of thorium, cerium, chromium, alumina and soap, with or without a conducting core, and heating electrically. 2.

528. Sheffield, G. H., & Twinberrow, J. D.—6 June 1908. Railway vehicle underframe and draw gear construction. 1.

529. Ouden, J. F. den.—25 Feb. 1908; UK. 15,339, 3 July 1907. Antifouling paint containing tar, lime, white arsenic, boracite and borax.

530. Deutschmann, R. H.—25 Feb. 1908; UK. 17,825, 8 Aug. 1906. Serum is obtained from animals treated in specific ways with subcutaneous injection and fed on yeast.

531. Lash, H. W.—4 July 1908. Iron is smelted from mixtures of finely divided iron oxides, carburized iron and carbonaceous material with or without sawdust, feuxes and binding material, in electric or other furnaces.

532. Mudaliar, A. A.—Flour.

533. Hyder Hussain Sahib, M. A. R.—Bangles.

534. Walke, C.—4 July 1908. Cotton gin rollers are made from cocoanut husks without other material.

535. Cox, F. J.—9 Jan. 1908; UK. 9701, 25 April 1906. Carburetting apparatus with slide valves for air and oil supply automatically controlled by gas holder. 2.

536. Cox, F. J.—24 Feb. 1908; UK. No. 9701A, 25 April 1906. Carburetting apparatus as described in No. 535 above with oil supplied by air pressure in bell holder. 1.

537. Kershaw, A. G., & Saxby and Farmer, Ld.—22 April 1908; UK. 16,241, 15 July 1907. Railway point working, locking and detecting and signal detecting apparatus worked by single lever by combined electric and mechanical means. 3.

538. Kershaw, A. G., & Saxby & Farmer, Ld.—22 April 1908; UK. 16,368, 16 July 1907. Railway point and signal rod guides with travelling top rollers and suspended swinging and travelling lower rollers. 3.

539. Kershaw, A. G., & Saxby and Farmer, Ld.—22 April 1908; UK. 17,699, 2 Aug. 1907. Railway point shunting lever arranged to return to centre and to allow trailing without vibration. 2.

540. Kershaw, A. G., & Saxby & Farmer, Ld.—22 April 1908; UK. 17,347, 29 July 1907. Railway signal electric slot apparatus controlling mechanical operation from two points and allowing return of signal to danger. 2.

541. Corthesy, J. H., & Griffin, G. F.—31 March 1908; UK. 866, 12 Jan. 1906. Steam, etc., turbine with exhaust openings in casing in rear of the steam inlets. 2.

542. Bodemer, J. G.—24 June 1908; UK. 22,760, 15 Oct. 1907. Spinning—backing off brake gear for self-acting mules. 10.

543. Griesshaber, H.—24 June 1908. Buildings are cooled and ventilated with cooled dried air drawn from cold storage chambers which have been cooled at night by larger volumes of air or otherwise. 1.

544. Saklatvala, K. B.—26 March 1908. Dyeing and waterproofing khaki in baths of chrome alum, soda and copperas, followed by caustic soda.

545. Shircore, Mrs. M. H.—11 Feb. 1908. Rifle rack with electric alarm attachments to prevent theft. 1.

546. Mansfield, A.—11 Feb. 1908; UK. 28,387, 12 Dec. 1906. Gasholder arranged to be loaded with water to increase delivery pressure. 2.

547. Dewet, O. H.—2 June 1908. Trolley head for electric traction with trolley wheel mounted on a spring hinged arm on the swivelling head. 1.

548. Ewin, A.—Foot boards for railway vehicles.

549. Sharma, T. K.—Medicine.

550. Declozets, L. P.—28 Jan. 1908. Composition of paddy husk, cement and a salt to be used as plaster, heat non-conductor, stone or wood substitute; or for bricks, tiles, etc.

551. Wheatley, W. G., Blair, W. G., & Saxby & Farmer (India), Ld.—11 Feb. 1908. Railway point and signal interlocking and detecting apparatus usable in connection with Hepper's and Annett's devices. 6.

552. Monotype Machine (Colonial Patents) Syndicate, Ld.—4 July 1908; UK. 20,934, 20 Sept. 1907. Keyboard mechanisms for record strip perforating machines, etc., arranged to allow grouping irrespective of space value. 5.

553. Monotype Machine (Colonial Patents) Syndicate, Ld.—4 July 1908; UK. 21,013, 21 Sept. 1907. Record strip composing machines with dimensioning control independent of other functions. 7.

554. Ratcliffe, E. S.—24 June 1908; UK. 23,176, 19 Oct. 1906. Boiler, etc., tube scaling tool with percussive action. 1.

555. Palmer, I. E.—24 June 1908; UK. 22,186, 8 Oct. 1907. Spinning thread guide with lateral and longitudinal adjustment. 1.

556. Plant, W. C. G. G. T.—8 July 1908; UK. 26,062, 25 Nov. 1907. Railway vehicle coupling of the automatic type. 1.

557. Davidson, S. C.—20 May 1908; UK. 9156, 19 April 1907. Drying tea, grain, etc., in moving or tilting tray apparatus with forced draught. Reference is made to No. 336 of 1907. 7.

558. Kennedy, R. G.—14 Jan. 1908. Module for giving water supply either constant or proportioned with tapered outlet, to which there is a reflux supply or a jet and gauges. 1.

559. Pintsch's Patent Lighting Co.—14 Jan. 1908; UK. 18,714, 21 Aug. 1906. Ventilating fan apparatus for railway vehicles, etc., driven continuously by a spring motor which stores power against the time when the vehicle stops. 1.

560. Mooroogesa Chavey, P.—22 Dec. 1908 Typewriter for Tamil character. 10.

561. Nandy, P. C.—Matches.

562. Kohlar, F.—Spinning, ginning.

563. Empire Oil Engine Syndicate, and Alston, C. H. T.—26 March 1908; UK. 6850, 22 March 1906. Internal combustion engine of the double action reversing type working on a two cycle stroke with independent air and gas pumps. 2.

564. Rudder, F. P.—9 Jan. 1908; UK. 28,945, 19 Dec. 1906. Destructor furnaces arranged for utilisation of part of the hot products of combustion to dry the garbage. 4.

565. American Linen Co.—8 Sept. 1908. Flax preparing machine with series of fluted breaking rolls and heckling, combing and brushing rolls. 7.

566. Pearson, A. C.—3 March 1908; UK. 25,882, 15 Nov. 1907. Fish and offal treated for production of oil and fertilizers in steam digestion apparatus, arranged for continuous feeding. 3.

567. Sanderson, H., Isaacson, R. J., Sanderson, H. St. J., Wardle, E., Firth, J. E., & Charlesworth, C. E.—Locomotive valves.

568. Gresham, H. E.—24 June 1908; UK. 27,718, 5 Dec. 1906. Railway vehicle vacuum brake valve arrangement for full or gradual application of brake. 1.

569. Woodman, A.—22 April 1908. Railway signal slotting or controlling apparatus with electric control from line, etc., of the mechanical connections. 3.

570. Brandram, A. G.—24 June 1908; UK. 184, 2 Jan. 1906. Pipe joint for earthenware or other sewer or like pipes, consisting of a medal band coated with bitumen and tightened round the ends. 1.

571. **Powell, F. A.**—24 June 1908; UK. 8416, 11 April 1907. Postal collecting receptacles detachably connected to chute with locking devices. 3.

572. **Societa Generale per la Cianamide.**—26 Aug. 1908; UK. 5314, 5 March 1907. Nitrogen compounds are made by the reaction of nitrogen on carbides, the reaction being initiated by localized heating.

573. **Macpherson, R., & Heys, W. E.**—24 June 1908; UK. 23,546, 16 Nov. 1905. Soaps for use with hard or sea water, prepared from cocoanut oil products, have vegetable proteids, such as cocoanut oil cake, added.

574. **Kapadia, F. D.**—20 March 1908. Cotton gin rollers built up of discs of bamboo matting, treated with cement. 1.

575. **Gaebelo, F.**—13 July 1908; UK. 12,596, 30 May 1906. Cocoanut fibre is macerated in an alkaline bath of 33° to 36° B. and 25° to 30° C. for 6 to 10 days, washed and decorticated to produce material resembling animal hair.

576. **Firman, W. G.**—14 July 1908. Driving pulley mounted on ends of two shafts with clutch gear on each side. 1.

577. **Rees, E. S. G.**—27 Jan. 1908; UK. 27,615, 4 Dec. 1906. Rotary pumps, turbines and compressors as described in Nos. 118 and 331 of 1907 are arranged for use as air compressors or as gas driven turbines. 2.

578. **Ress, E. S. G.**—27 Jan 1908; UK. 26,610, 23 Nov. 1906. Multi-stage turbines and pumps of the kind described in No. 118 of 1907. 1.

579. **Firman, W. G.**—14 July 1908. Feeding device for tea sifters, etc., with adjustable hopper flaps and reciprocating hooked knives. 1.

580. **Firman, W. G.**—14 July 1908. Elevator of rotary or scoop wheel type for tea, granular materials, water, etc. 1.

581. **Firman, W. G.**—14 July 1908. Sifting apparatus for tea, etc., of the horizontal revolving drum type with adjustable feeding vanes and lifting trays, and with brushing devices. 1.

582. **Lewis Automatic Coupling Co.**—13 March 1908. Railway vehicle coupling of the shackle and hook type arranged for automatic or hand coupling. 2.

583. **Jute and Hemp Manufacturing Co.**—17 July 1908; UK. 10,083, 1 May 1907. Fibre bearing plants are treated by breaking and scutching after softening by soaking in hot or cold water or chemicals, etc

584. **Bhagwan Dass, & Harikishan Dass.**—11 Aug. 1908. Clockwork mechanism with electric striking and alarm attachments. 1.

585. **Allah Dad Khan.**—18 Dec. 1908. Pen holder with two pens for writing duplicates. 1.

586. **Hart, R. S.**—Animal food.

587. **Fawcett Preston & Co.**—5 March 1908; UK. 17,927, 7 Aug. 1907. Baling press box revolving mechanism operated by fall of graduated weights which are raised by hydraulic ram. 2

588. **Tapidas, B.** Steam generator.

589. **Begg, J.**—14 July 1908. Tea dust is made by cutting or pulping the leaf while green or before it is made crisp. Revolving knives inside a longitudinally fluted drum may be used. 1.

590. **Rogers, D**—30 March 1908. Railway chair sleeper of the plate type with movable jaws and tie attachment. 1.

591. **Mills Equipment Co.**—4 July 1908; UK. 17,601, 1 Aug. 1907. Snap fastening with stud sprung into spring holder. 1.

592. Sutton, G. W.—Tea drying.

593. Rogers, G. K., & Jacomb-Hood, M. S.—19 May 1908. Railway signalling on electric slot system with control from station master's office or other centre. 3.

594. Slater, J.—Railway signals.

595. Bôdas, M. R.—Loom.

596. Mudaliar, V. G.—19 June 1908. Water lift with counterbalanced buckets worked by hand winch with clutch gear to obviate reversing the winch. 3.

597. Joshi, S. K.—Water wheels.

598. Wheatley, W G., & Saxby & Farmer (India), Ld.—27 March 1908. Railway point detectors are worked from a special additional stretcher bar. 2.

599. Pintsch's Patent Lighting Co.—24 Feb. 1908; UK. 16,781, 22 July 1907. Electric voltage is maintained constant when the generator is driven at variable speeds by a second dynamo driven electrically at compensating speeds. 1.

600. Whitney, A.—25 Feb. 1908. Railway points operated and locked from a single line of rodding acting the rough slotted connection from the locking bar. 2.

601. Cawnpore Sugar Works, Ld.—13 March 1908. Animal food consisting of molasses mixed with comminuted maize cobs.

602. Haywood, T. E., & McKenzie & Holland, Ld.—24 June 1908; UK. 11,198, 14 May 1907. Railway signal wire pulleys and carriers with adjustments and supports. 2.

603. Brown, G. H.—15 July 1908; UK. 2413, 31 Jan. 1907. Railway electric block signalling arrangements with automatic control by train. 1.

604. Dillberg, G., & Gadd, A.—24 June 1908; UK. 16,757, 22 July 1907. Vegetable fibrous and textile, etc., materials are tanned with mixtures of tanning material and creolin, followed by formarlin to preserve them.

605. Schoop, M. U.—26 March 1908; UK. 24,283, 2 Nov. 1907. Aluminium and its alloys are melted or welded with a flux consisting of alkali chlorides and chorides.

606. Barrett, W.—23 Jan. 1908; UK. 16,281, 16 July 1907. Upholstery springs and surfaces for seats, etc. 1.

607. Newton, H. C., & Michell, A. G. M.—5 Feb. 1908.—Cipher code systems, apparatus for coding and converting messages. 6.

608. Brown, G. H.—15 July 1908; UK. 10,687, 8 May 1907. Railway signalling electric block arrangements as described in No. 603 of 1907 with automatic control from train and additional safeguards. 3.

609. Lawrence, S. S.—23 July 1908; UK. 10,522, 6 May 1907. Magnetic compasses for pocket use with luminous and writing tablet attachments and other details of construction. 1.

610. Lawrence, S. S.—23 July 1908; UK. 24,792, 8 Nov. 1907. Magnetic compasses with luminous attachments and other details for use as a prismatic compass, etc. 1.

611. Dutton, S. T.—28 July 1908. Railway locking or treadle bars are carried by horizontal radial arms. 2.

612. Bowack, H. H.—Floors.

613. Griffin, H. F., & W. A.—18 Nov. 1908. Railway wheel construction with braking surface. 1.

614 Douglas, G. C.—Tea drying.

615. Aiyar, A. S.—11 March 1908. Typewriter keyboard for Tamil character. 1.

1908.

1. **Rogers, L. H., & Meyers, A.**—5 Aug. 1908. Pneumatic tyre puncture sealing material consisting of burnt siliceous limestone, casein and water.

2. Baker, E. B.—5 Aug. 1908. Jute or other canvas material, used for baling or packing wool, ore, etc., impregnated with paper pulp or other pulped fibre and size by bath and roller apparatus. 1.

3. Jacobi, C. R. H.—26 Aug. 1908. Ventilating and air moistening apparatus with tapered tubes and nozzles, inlet from external or internal air, and removable gratings to catch superfluous water from spray. 2.

4 G. & C. Hoskins, Ld.—5 Aug. 1908. Metal working machine for upsetting edges of rolled plates into dovetail form for use in making pipes of the locking bar type. 2.

5 Johnson, W. C.—5 Aug. 1908; UK. 10,060, 30 April 1907. Water distributing nozzle with spiral and tilting motions for fire extinction, watering, etc. 2.

6. Shrewsbury, R. W.—5 Aug. 1908; UK. 13,779, 14 June 1907. Trollies for single elevated rail lines with swivelling, etc., arrangements for carrying timber, etc., and braking apparatus controlled by weight of the local. 2.

7. Lamp Pump Syndicate, Ld.—5 Aug. 1908; UK. 4884, 28 Feb. 1906. Single acting fluid pressure engine. 2.

8. Turner, J., & Buxton, A.—30 May 1908; UK. 25,658, 9 Dec. 1905. Playing ball casings are built up of two layers of segments of caoutchouc-coated fabric arranged to break joint and cemented together.

9. Deam, O.—14 Aug. 1908; UK. 23,725, 26 Oct. 1907. Engine room telegraph with automatic record on a chart driven by a clock. 1.

10. Stitt, W. R.—15 Feb. 1908; UK. 243, 4 Jan. 1907. Loom with automatic weft replenishing mechanism. 8.

11. Cox, F. J.—30 March 1908; UK. 27,643, 4 Dec. 1906. Carburettor for gas engines, etc., with revolving spiral or helical surfaces over which hydrocarbon is fed. 1.

12 Bartlett, A. J.—30 March 1908; UK. 10,163, 1 May 1907. Boomerang of special form and throwing stick. 1.

13. Longmore, J., & Leslie, A. K.—14 Aug. 1908; UK. 27,015, 6 Dec. 1907. Yarn is wound for transport on paper or similar bobbins detachably mounted on wooden or other bobbins. See also No. 50 of 1908. 2.

14. Hartley, W.—7 April 1908; UK. 4014, 19 Feb. 1906. Lamps of the inverted incandescent vapour type, arrangement of mixing chamber and tubes, air shield and starting cup. 1.

15. Mansbridge, G. F.—13 May 1908; UK. 22,139, 31 Oct. 1905. Paper, parchment, etc., covered with metal and used for electric condensers, etc. (foiled paper) is subjected to electric currents to burn off the metal around defective places in the paper, etc. 1.

16. Ozonair, Ld., & Rogerson, F.—13 May 1908; UK. 17,909, 9 Aug. 1906. Ozonized air is used in brewing and other fermentation processes.

17. Rangaswami Aiyangar, T.—21 Sept. 1908. Water lifts with bucket suspension to fill and empty automatically and with ball bearings for the pully. 1.

18. Martha, L. A.—5 Aug. 1908; UK. 8921, 17 April 1907. Internal combustion engines with arrangements for vaporization of sprayed heavy oils in vacuo. 3.

19. R. Ditmar & Brunner Brothers, Ld.—26 Feb. 1908. Lamp chimney raising attachment consisting of bent pivoted lever or cam and guide. 1.

20. Kenalram Jothabhai Lakkad.—Lime kiln.

21. Nesfield, V. B.—19 Aug. 1908. Sterilizing apparatus for bottled milk, etc., consisting of a jacket or cover placed over the bottles in a shallow pan of boiling water. 1.

22. Matter, P. J —14 Aug. 1908: UK. 25,361, 15 Nov. 1907. Railway signalling on and between trains and line with lamps and audible signals worked from sectional electric conductors on the line. 1.

23. Carey, R. F.—17 Aug. 1908; UK. 1071, 15 Jan. 1907. Door opening and closing mechanism operated by the weight of the person passing through. 2.

24. Caught, J. N.—25 June 1908. Steam engine with piston valves and rotary shaft in alignment with reciprocating piston and driven by return screw or cam groove. 3.

25 Leivesley, W.—29 May 1908. Telegraph switching and repeating arrangements and circuits. 5.

26. Berliner, H. S.—19 May 1908. Gramophone, etc., record surfaces are made by coating the base with a viscous mixture of alcohol with a finely powered mixture of earthy and fibrous material and shellac. The surface is softened by heat before impressing the record.

27. Seay International Ice and Refrigeration Machinery, Co.—5 Aug. 1908. Refrigerating apparatus on the ammonia absorption principle in which use is made of a solid absorbent such as ammonium thiocyanate which liquifies when saturated. 2.

28. Bodemer, J G.—5 Aug. 1908; UK. 27,807, 17 Dec. 1907. Spinning—means for clamping the drums of mules on their shafts. 1.

29 Mazlin, J.—27 Feb. 1908. Pick head with removable points. 1.

30. Steele, E.—11 Sept. 1908: UK. 4115, 19 Feb. 1906. Explosives of the ammonium nitrate, etc., type are waterproofed by granulating with the aid of nitrated resin compounds and alcohol.

31. Davidson, S. C.—29 Feb. 1908; UK. 26,347, 28 Nov. 1907. Drying apparatus for tea, coffee, grain, etc., with tilting trays as described in No. 557 of 1907. Arrangements for controlling the tilting of the trays, discharge and air supply. 6.

32. Gauntlett, F W., & The Sherardizing Syndicate, Ld.—29 Feb. 1908: UK. 9959, 28 April 1906. Metallic coating by Sherard's process with zinc or other metal dust mixed with inert materials such as silica or carbon.

33. Christensen, E. H.—3 March 1908. Gramophone sound box construction and stylus attachment. 1.

34. Irwin, W. S.—10 March 1908. Foresight for small arms consisting of a removable clip with reflecting surface for night shooting. 1.

35. Subba Rao, C. K.—Water-lift.

36. Dayashanker Motiram Jani.—Typewriter.

37. Shuman, F.—27 Feb. 1908; UK. 28,130, 20 Dec. 1907. Sun heat is absorbed in a thin protected sheet of flowing liquid which may be connected to a reservoir and utilised to drive motors using liquids of low boiling points. 2.

38. Holland, R. & G., & Mrs. S.—Ships propellers.

39. Regina Maschinenfabrik, m. b. H.—4 March 1908. Ticket printing and registering apparatus for railway, etc., use. 4.

40. Capell, G. M.—5 Aug. 1908; UK. 61,734, 24 July 1906. Centrifugal fans and pumps with blades arranged to utilise cavitational forces. 2.

41. Müller, A.—5 Aug. 1908; UK. 3294, 9 Feb. 1907. Cement is prepared from highly basic blast furnace slag by treating the molten slag with a solution of barium or strontium salt.

42. Shailer, P. H., & Sully, W.—18 July 1908; UK. 1032, 15 Jan. 1907. Railway vehicle central buffer and automatic coupling combined. 2.

43. Gerard Ozone Process Co.—31 Aug. 1908. Ozonizing electric apparatus. 2.

44. Wallace, J.—31 Aug. 1908. Filters with porous earthenware "candles" removably held in pockets at the base of the reservoir. 1.

45. Simpson, W. S.—5 March 1908; UK. 27,628, 4 Dec. 1906. Metals are joined, brazed or welded by encasing the joint with a special carbonaceous paste and raising to a sufficient temperature to melt the softer junction metal. Armour, ordnance, axles, etc., are thus made.

46. Highfield, J. S.—5 March 1908; UK. 11,165, 13 May 1907. Electric distribution systems for direct current with switches provided for cutting out sections or dividing it into parts. 1.

47. Clarke's Pyramid and Fairy Light Co.—5 Aug. 1908; UK. 28,495, 27 Dec. 1907. Lamps for candles or night lights with adjustment for position of flame in relation to the chimney. 1.

48. Berry, A. F.—11 March 1908; UK. 25,411, 10 Nov. 1906. Electrically heated cooking and other hot plate apparatus with induction and resistance arrangements. 2.

49. Quine, R. H.—22 April 1908; UK. 8777, 16 April 1907. Bath and stand on which users can sit astride. 3.

50. Longmore, J., & Leslie, A. K.—28 Oct. 1908; UK. 27,220, 9 Dec. 1907. Unwinding yarn from double flanged bobbins with the aid of a flyer. Reference is made to No. 13 of 1908. 1.

51. Rosanof, N.—4 Nov. 1908; UK. 3970, 18 Feb. 1907. Ground augers for making holes for planting and other purposes. 1.

52. Hopper, J.—1 July 1908; UK. 8460, 17 April 1907. Road vehicles of the landaulette type with folding cover arranged for extension over the driver's seat by a lazy tongs motion. 1.

53. Josling, H. W. E.—26 March 1908; UK. 3660, 14 Feb. 1906. Bottle neck fittings with valve to prevent refilling. 1.

54. Linotype & Machinery, Ld.—11 Sept. 1908; UK. 23,847, 26 Oct. 1906. Linotype machines of the Mergenthaler type described in No. 64 of 1900, arrangements for changing the magazines. 5.

55. Linotype & Machinery, Ld.—11 Sept. 1908; UK. 1819, 24 Jan. 1907. Linotype machines, arrangements for justifying tabular matter. 5.

56. Linotype & Machinery, Ld.—11 Sept. 1908; UK. 7884, 4 April 1907. Linotype machines of the type described in No. 64 of 1900 with a single set of matrices bearing different fount characters on their edges, arrangements for presenting the desired fount and returning them. 3.

57. Jackson, W.—21 April 1908; UK. 27,910, 18 Dec. 1907. Tea, etc., drying apparatus of the belt or tilting tray type, arrangements for casing the chamber, drawing air through the casing and forcing it through the heating and drying chamber and to the furnace. 2.

58. Jackson, W.—21 April 1908; UK. 27,911, 18 Dec. 1907. Tea, etc., drying apparatus of the belt or tilting tray type, arrangements for passing heated air from top to bottom of the chamber and up through a casing round the chamber. 1.

59. Kershaw, A. G., & Saxby & Farmer, Ld.—24 June 1908; UK. 26,362, 28 Nov. 1907. Railway point and lock operating mechanism with cam and antifriction rollers. 1.

60 Cockburn, S. M., & Temperby, J. R. & J.—26 Aug. 1908; UK. 2880, 5 Feb. 1907. Steam generators of the water tube type, arrangements of feed heating and steam raising section, steam extractors, and headers, etc. 10.

61. Cutler, W.—23 April 1908; UK. 17,748, 3 Aug. 1907. Boats with a screw propeller driven by manual power through reciprocating gear and steered and reversed by swivelling the propeller. 1.

62. Auto-Hydraulic, Ld.—17 Sept. 1908. Water lifts actuated by air compressed in one of a series of reservoirs alternately filled and emptied with water under a head. 2.

63. Rennick, R. H. F.—Flour.

64. Roukawischnikoff, M.—8 Sept. 1908. Ships are moved by hauling on to anchors, deposited in advance from movable gantry on the bow of the vessel. 1.

65. Hill, E. J.—14 May 1908; UK. 22,727, 15 Oct. 1907. Railway vehicle couplings of the non-automatic link or screw type, supports for holding up the coupling. 3.

66. Huwart, E.—17 Aug 1908; UK. 27,646, 14 Dec. 1907. Disinfecting by trioxymethane, vaporized by steam and combustion products in a lamp device. 1.

67. Churchill, D. C.—Loom.

68 Schafer, J. B.—25 June 1908; UK. 1521, 19 Jan. 1906. Ice-cream freezer with mixing and discharging screw in the central cream vessel. 1.

69. Sule, R. S.—Boxes.

70. Jost, C.—8 Sept. 1908; UK. 2854, 8 Feb. 1908. Bearings with means for lubricating vertical shafts, and spring or flexible shafts, for centrifugal punkah fans 1.

71. Jost, C.—8 Sept. 1908; UK. 2855, 8 Feb. 1908. Tension device, applicable also for stopping and starting centrifugal punkah fans driven by endless cords or the like. 1.

72 Bowack, H. H.—Floors.

73. Avan, M. D.—Medicine.

74. Subramanya, P. S.—18 Nov. 1908. Loom vertically arranged with shedding and picking motion worked from treadles. 2.

75 Palmer, I E.—31 March 1908; UK. 28,496, 27 Dec. 1907. Spinning and twisting machine thread guides 1.

76 Makhan Lal Dey.—3 April 1908. Safes with welded frames, headed rivets and other details. 1.

77. Badische Anilin, & Soda Fabrik.—28 April 1908; UK. 9279, 19 April 1906. Electric long flaming arcs as in No. 272 of 1907, arrangements for multiple tubes and arcs. 1.

78. Burnside, F. M., & Renard Road and Rail Transport Corporation, Ld.—26 Aug. 1908; UK. 14,243, 20 June 1907. Road train vehicles and also steerable axles, are coupled by crossed rods with spring connection. 1.

79. Murray, Esther.—3 March 1909; UK. 5688, 9 March 1907. Spring wheel with spokes replaced by a circularly looped continuous strip of metal. 1.

80. Henderson, N. M.—26 Aug. 1908; UK. 25,152, 13 Nov. 1907. Paraffin wax is treated and refined in cell apparatus with water circulation for cooling and sweating. 3.

81. Bonnefont, C.—26 Aug. 1908; UK. 1339, 20 Jan. 1908. Artificial stone is moulded from a mixture of cement, sand, etc., and sodium silicate. The cement is a burnt mixture of clay and lime. The articles may be dipped in sodium silicate and hydrofluosilicic acid. 1.

82. Claire, J. B. G. Le.—24 Nov. 1908. Sugarcane juices are clarified by additions, before boiling, of sodium carbonate and chlorides mixed with sand.

83. Hughes, W. M.—1 July 1908. Carburettor plant for oil gas for power or light with air holder, float feed, air bell pump and special carburetting chamber. 2.

84. Hoyle, H. H.—Trouser press.

85. Bleeck, W. A. F.—26 Aug. 1908. Electric primary batteries with zinc in sodium hydrate solution and carbon in solution of chromic acid with or without hydrogen peroxide and hydrochloric acid. 1.

86. Bhim Chandra Chatterjee.—28 May 1908. Agricultural drill, for sowing seeds at fixed distances apart, attached to a plough. 1.

87. Grogan, H. C.—25 July 1908. Railway vacuum brake applied by opening carriage doors. 1.

88. Thew, C. H.—8 June 1908. Railway signal for indicating parting of a train to the guard, consisting of improvement on the gearing described in No. 564 of 1906. 3.

89. Robertson, J.—16 Dec 1908; UK. 22,341, 10 Oct. 1907. Spinning flyer frames with means for severing yarn and hold fasts for flyers. 2.

90. Marzi, D.—26 Aug. 1908; UK. 17,704, 2 Aug. 1907. Telephonic receivers and transmitters with magnifying lever connection between magnet system and diaphragm and microphonic relay. 3.

91. Jawahar Singh Mistri.—21 Jan. 1909. Boots with wooden soles sewn to uppers. 1.

92. Mahomad Hyat and Brothers.—Water-lift.

93. Salkield, T.—Refuse disposal.

94. Salkield, T.—Road vehicles.

95. Lalor, N. P. O.—Latrines.

96. Boga, F. J.—30 June 1908. Pneumatic tyre preserving and puncture preventing composition of sugar, gum arabic, glue, brick dust, and plumbago.

97. Rose, A. T.—Steam engine.

98. Rose, A. T.—Mine cage guides.

99. Dallas, J. C.—1 Sept. 1908. Water waste preventer and latrine flush with measuring chamber and connected inlet and outlet clock valves operated by weight of the user. 1.

100. Hytten, E. A.—9 April 1908; UK. 425, 7 Jan. 1908. Telegraphone apparatus consisting of combinations of telephones and spool recorders for speech, and dictating apparatus in which the motion of the spool is controlled to facilitate the work of the transcriber. 14.

101. Crittall, F. H.—26 Aug. 1908; UK. 1098, 22 Jan. 1908. Expanded metal is made with helical twist in the sides of the meshes, the twist being given during rolling by rollers with saw-like teeth. 1.

102. Mullally, T. L.—11 Sept. 1908; UK. 2976, 10 Feb. 1908. Coverings consisting of flexible metal sheets in sections, with hook and eye fastenings for stacks, piles, railway wagons, etc. 1.

103. Crawford, A. A.—8 June 1908. Dynamo brush holder with coppered carbon pressed from box by spring lever. 2.

104. St. John, E. C.—20 Oct. 1908. Support for electric or other ceiling fans consisting of adjustable bracket clamped on girders. 1.

105. Solomon, J. I.—29 Jan. 1909. Oysters and other marine fauna are confined in fixed or floating boxes, arranged for their cultivation and growth. 1.

106. Roukawischnikoff, M.—Ships and boats.

107. Percy, J. E.—Reins.

108. Fessenden, R. A.—24 April 1908; UK. 28,412, 24 Dec. 1907. Wireless telegraphy with control of direction by closed loops or horizontal conductors utilizing electromagnetic or current components of the waves. 1.

109. Torkington, A. W.—22 June 1908; UK. 26,480, 22 Nov. 1906. Rubber tyres for motor-cars, etc., with floating rings or link chains secured to the rubber at the sides. 2.

110. Platinum Substitutes, Ld.—24 April 1908; UK. 22,911, 16 Oct. 1906. Electric conductors to be sealed in glass for lamps, etc., are made of thin flattened copper or its alloy and enclosed in glass or enamel. 1.

111. British Automatic Aërators, Ld.—22 Oct. 1908; UK. 4261, 20 Feb. 1907. Aërating and bottling machines arranged for aërating and delivering a charge at each operation. 3.

112. British Cerofirm Co.—28 Sept. 1908; UK. 2240, 31 Jan. 1908. Incandescent mantles made by dipping fabric, impregnated with cerium and thorium nitrates in hydrogen peroxide and on organic body capable of producing insoluble oxides.

113. Empire Roller Bearings Co.—3 Sept. 1908. Pulley wheel for water lift, etc., with roller bearings and friction grip to prevent rope running back. 1.

114. Tice, W.—29 April 1908 Latrine seat with arrangements for separating solid and liquid matters, as described in No. 385 of 1905, altered in form and made in one piece with drain. 1.

115. Pradeau, C. W.—23 April 1908; UK. 27,174, 29 Nov. 1906. Spring and toothed gearing for transmitting power uniformly, used for motor-cars, driving dynamos for lighting vehicles, etc. 2.

116. Pradeau, C. W.—23 April 1908; UK. 27,599, 4 Dec. 1906. Rotary internal combustion engine of the annular chamber type with air pump. 2.

117. Cowell, T. T.—28 April 1908. Railway vehicle automatic brakes operated by passengers' alarm signals. 3.

118. Chellis-Hillman Co.—26 Aug. 1908; UK. 1625, 23 Jan. 1908. Bottle stoppers of the cap type with clip fastenings. 2.

119. Constantine, P. H. & F. W., & Kay, T. G.—Spinning.

120. Herrenschmidt, H.—26 Aug. 1908. Electric conductors for heating, lighting and other purposes, capable of conducting when cold, are prepared by using metallic earthy and other oxides alone or under oxidizing conditions.

121. Walke, C.—22 Oct. 1908. Gin rollers made from paper in which coir or other vegetable fibre is incorporated.

122. Hayman, J. M.—24 June 1908. Maize cob shellers or strippers for hand use. 1.

123. Hill, E. J.—14 May 1908; UK. 10,883, 9 May 1907. Railway wagon brakes, rack and catch for holding hand levers. 2.

124. Zaretzky, W.—24 April 1908; UK. 19,625, 2 Sept. 1907. Sieves or graders for grain, rice, etc., with two sheets of inclined longitudinal bars mounted alternately in reciprocating frames. 1.

125. Spoendlin, R.—19 May 1909; UK. 24,793, 8 Nov. 1907. Centrifugal pump construction and turbines arranged to utilise power in the current. 1.

126. Banks, W.—16 Dec. 1908; UK. 9543, 24 April 1907. Billiard tables of oval form with cushions designed as arcs of circles. 3.

127. Coombs, A. A.—Railway chairs.

128. Nance, C. W.—26 Aug. 1908. Ejector apparatus for exhausting air and producing a vacuum by impellant liquid. 2.

129. Main, T. T., & Nance, C. W.—26 Aug. 1908. Eggs, fish, meat, etc., are treated to preserve them by exposure to deoxygenized solutions in vessels from which air has been exhausted. 1.

130. Auchu, H.—10 Nov. 1908. Explosives feeding and screw press machinery for making cartridge rope from explosive gelatine 10.

131. MacVoy, P. J.—13 May 1908. Screws for carpenters and joiners with holes in the head instead of the ordinary slot and a false slotted head for use therewith. The screw is secured further by screw or nails through the holes. 1.

132. Girish Chandra Dass.—1 May 1908. Cooking pans of iron cast from the edge. 1.

133. Hartley, W.—21 July 1908; UK. 17,027, 28 July 1906. Lamp detachable incandescent burners for vapour with vaporizing and mixing attachments. 1.

134. Bunting, S. A. S.—1 July 1908. Concrete is mixed during transport in a box of triangular section mounted to revolve with its carrying wheels. 2.

135. Grognot, L.—India-rubber.

136. Comings, W. R.—7 Nov. 1908; UK. 27,388, 1 Dec. 1906. Box folding or making and covering machine. See also No. 70 of 1907. 3.

137. Rogers, D.—Railway chairs.

138. Tierney, J. W., & Brackenbury, H. I.—23 May 1908; UK. 13,902, 15 June 1907. Pneumatic hand tools, improvements on No. 158 of 1905. 1.

139. Tierney, J. W., & Brackenbury, H. I.—2 May 1908; UK. 28,029, 19 Dec. 1907. Pneumatic hand tools, valve arrangements. 1.

140. Pollen, A. H.—29 Oct. 1908; UK. 27,912, 18 Dec. 1907. Web printing presses of the duplex type arranged to feed the webs at different speeds for printing insets. 1.

141. Nichols, H G.—26 Aug. 1908; UK. 2479, 4 Feb. 1908. Ore pulp or slimes are settled in tanks from which the solid matter is removed by an endless belt. 1.

142. Killen, E. B.—26 Aug. 1908; UK. 8188, 5 April 1906. Rubber tyres of solid type are attached to wheels by bolts and washers fitting into depressions in the tyres. 1.

143. Ralli, L. E., & Argenti, P. L.—1 June 1908. Cotton is cleaned after ginning by a combination of revolving toothed drums working over grids, and a fan blast. 1.

144. Godrej, P. B.—6 Nov. 1908. Safes are made from plates, on to which T-sections are welded instead of rolled sections as in No. 510 of 1907. 1.

145. Thompson, J. S.—23 July 1908. Type casting machine. 4.

146. Marchant, C. A.—16 Sept. 1908. Weed cutting attachment for propellers of ships and boats. 1.

147. Fletcher, W. H.—13 Jan. 1909; UK. 5411, 9 March 1908. Grinding mill with centrifugally acting rollers. 1.

148. MacMichael, R. F.—8 May 1908; UK. 4713, 2 March 1908. Single trigger mechanism for guns. 2.

149. Blair, W. G., & Saxby & Farmer (India), Ld.—27 Nov. 1908. Railway signal interlocking gear for semaphores at branches. 1.

150. Salkield, T.—Refuse disposal.

151. D'Costa, C S., & Ewin, W. B.—Furniture.

152. Ramprasad Hiralal Yodha.—22 June 1909. Looms for hand or power, construction of slay board and its working gear, warp, alarm, take up gear, warp beam supports and ball bearings. 4.

153. Ottley, J. W.—4 Nov. 1908; UK. 6934, 22 March 1907. Rifle barrel detachable cover, improvement on No. 441 of 1901. 1.

154. Garforth, W. E.—19 May 1908; UK. 11,367, 15 May 1907. Respiration apparatus for rescue work in mines, etc. 6.

155. Garforth, W. E.—23 May 1908; UK. 11,367B, 15 May 1907. Respiration apparatus for rescue work in mines, etc. 5.

156. Garforth, W. E.—23 May 1908; UK. 11,367A, 15 May 1907. Respiration apparatus for rescue work in mines, etc. 3.

157. Ackroyd, W , & Buckley, C. A. M.—23 May 1908; UK. 7016, 23 March 1907. Steam superheater constructed as semicircular partitioned box, replacing the flue dividing walls in Lancashire and other boilers. 2.

158. DeDion Bouton (1907), Ld —17 Nov. 1908. Motor omnibus and similar bodies constructed of metal plates and frames and provided with special fastenings and seats. 1.

159. Douglas, N. S.—Roads.

160. Skelton, A. W. C.—Railway brakes.

161. Ridsdale, C. G.—1 July 1908. Railway staffs, tickets, etc., are made in two parts, one to be carried by the driver and the other by the guard. 1.

162. Badische Anilin & Soda Fabrik.—23 May 1908; UK. 12,219, 27 May 1907. Dyeing with sulphur colouring matters mixed with fermentable matter in an alkaline bath.

163. Société des Télégraphes Multiplex, Système E. Mercadier.—18 Nov. 1908. Mono-telephone relay transformer for printing telegraphs on multiplex systems. 2.

164. Walker, C. T.—23 May 1908; UK. 8526, 12 April 1907. Looms-attachment of strap to picker by a loose ferule. 1.

165. Appleby, W. H.—18 Nov. 1908; UK. 8448, 11 April 1907. Railway vehicle automatic couplings with hooks and links, combined with buffers. 4

166. Gregory, G. R.—23 May 1908; UK. 21,432, 27 Sept. 1906. Steam boiler furnaces with injector for supplying mixed steam and air above the fire. 1.

167. Molas, E. E., & Delafon, M.—18 Nov. 1908. Generating burned gases under pressure for engines, turbines, etc. 1.

168. Linotype & Machinery, Ld.—29 Jan. 1909; UK. 1818, 24 Jan. 1907. Linotype magazine changing devices. 2.

169. Linotype & Machinery, Ld.—3 Dec. 1908; UK. 4790, 27 Feb. 1907. Linotype moulds and ejectors. 4.

170. Linotype & Machinery, Ld.—27 Nov. 1908; UK. 9032, 18 April 1907. Linotype matrix distributors for double magazine machines. 4.

171. Linotype & Machinery, Ld.—27 Nov. 1908; UK. 18,962, 22 Aug. 1907. Linotype trimming devices adopted for two-line linotypes having one or more display. 7.

172. Goodwin, J. M.—18 Nov. 1908; UK. 6122, 19 March 1908. Railway dumping wagons, construction of bodies. 8.

173. Società Generale per la Cianamide.—18 Nov. 1908; UK. 21,786, 2 Oct. 1907. Nitrogen compounds are made by the reaction of nitrogen on carbides, the reaction being initiated by local heating. See also No. 572 of 1907.

174. Stephens, W. C.—22 May 1908; UK. 21,586, 28 Sept. 1907. Rock drill bits with longitudinal bore and cutting edges which do not intersect the bore. 1.

175. Deakin, W. H.—7 July 1908.—Railway crossing gate and signal locking mechanism with electric control and keys. 3.

176. Rehemtula Ismal.—19 April 1909 Locks of the tumbler type with additional tumbler lock mechanism and key for entrapping foreign keys and requiring two keys for opening. 1.

177. Moore, M., & Heskett, T. J.—23 July 1908; UK. 26,131, 26 Nov. 1907. Iron and steel manufacture by the Moore-Heskett direct process (see No. 334 of 1904) modified by methods of utilizing the gas, use of cupola metal, and arrangements of the furnaces. 2

178. Toyoda, S.—23 July 1908. Loom tension and let-off mechanism. 1.

179. Bhusan Chunder Dass.—22 July 1908. Baling press with single set of toggle levers on each side, connected by link. 1.

180. Dubern, G.—2 Jan. 1909. Ice-making—details of air agitators used in making clear ice. 1.

181. Wadia, D. M.—Spinning, carding.

182. Sheffield, G. H., & Twinberrow, J. D.—24 Nov. 1908; UK. 18,592, 16 Aug. 1907. Railway vehicle bogies with adjustable wheel base and brake rigging. 2.

183. Rossi, G.—24 Nov. 1908. Retting textile fibrous material by bacilli cultures in closed vessels through which a gaseous current is passed.

184. Jackson, W.—30 May 1908; UK. 5953, 17 March 1908. Tea, etc., drying apparatus, such as described in No. 58 of 1908, with top exit for moist air from the freshly introduced leaf. 1.

185. Jackson, W.—30 May 1908; UK. 5954, 17 March 1908. Tea rolling machine with eccentrically moving receptacle, containing pressing devices applicable to machines with fixed or with movable tables as described in No. 586 of 1906. 1.

186. Fraser, J., P. & N.—24 Nov. 1908; UK. 28,474, 27 Dec. 1907. Spinning—pressure applying and regulating device for rollers of drawing, roving and like frames. 1.

187. Adamson, G. W., & Simpson, A. M.—Trolley heads.

188. Thapur, J. R.—Rat trap.

189. Lamson Paragon Supply Co.—22 June 1908; UK. 13,823, 12 June 1907. Document file or binder consisting of a cover and solid piercers. 1.

190. Wilson, G. T.—2 Dec. 1908; UK. 11,843, 21 May 1907. Railway rail, etc., fish joints, one fish plate having lugs to enter holes in the rail web, and the other having a screwed hole for the bolt. 1.

191. Declozets, L. P.—18 Nov. 1908. Agglutinant for use in manufacture of fuel briquettes, cardboard, etc., consisting of an aqueous decoction of bark of a tree called "Ong tong" (*Tetranthera laurifolia*).

192. Stepney Spare Motor Wheel, Ld.—22 July 1908; UK. 25,284, 14 Nov. 1907. Attaching spare wheels or tyres to pneumatic tyred wheels. 2.

193. Rohrbacher, E. J.—5 Aug. 1908. Air compressor with automatic disconnection from the driving gear when the desired reservoir pressure is attained. 1.

194 Tice, W.—3 Dec. 1908. Smoke is consumed by returning it from the chimney to the ashpit or furnace. See also No. 216 of 1908. 1.

195. Jagger, P. B.—8 June 1908; UK. 5881, 10 March 1906. Concrete slabs, beams, pipes, etc., are moulded on a table to which oscillating and percussive motions are given. 3.

196. Bayley, V.—12 Oct. 1908. Unloading rails, etc., from railway vehicles by anchoring them to the line and starting the vehicle ahead. 1.

197. Blower, T. H.—Tea, withering.

198. Linotype & Machinery, Ld.—5 Feb. 1909; UK. 6273, 15 March 1907. Linotype quadding apparatus for use in casting short lines. 9.

199. Creed, F. G., & Coulson, W. A.—6 June 1908; UK. 8999, 18 April 1907. Typewriter worked from perforated tape with pneumatic control. 7.

200. Berglund, G. H. F., & Lindencrona, H. A. H.—2 Dec. 1908. Railway vehicle automatic couplings with operative parts enclosed in a casing. 4.

201. Briailles, G. C. de.—2 Dec. 1908. Cinematograph non-inflammable films prepared from gelatine (chondrine) coated with nitrocellulose. 1.

202. Siddall, A.—9 Dec. 1908. Supports for pictures and other articles, consisting of connected flexible strips with means for attachment. 1.

203. Wells, W. C. & F. E.—16 June 1908; UK. 15,036, 29 June 1907. Petroleum is distilled, refined and freed from water at temperatures below the boiling points by passing air or gases through the liquid in the stills, or spraying the oil. Heavy oils are refined after mixing with lighter oils. 2.

204. Pearson Fire Alarm, Ld.—24 June 1908; UK. 10,169, 8 May 1907. Fire alarm or thermo-indicator with electric connections and two metal strips, one of which expands and overtakes the other in case of sudden rise of temperature. 2.

205. Garland, T. H.—24 June 1908; UK. 6455, 23 March 1908. Railway vehicle ventilator consisting of a partitioned box device with cord openings for inducing a draught. 4.

206. Sun Power Co.—12 June 1908; UK. 8318, 14 April 1908. Sun heat is utilized by apparatus such as described in No. 37 of 1908, in combination with turbine appliances, and the arrangements are also applied to brine concentration. 2.

207. International Amet Co.—24 June 1908. Oil gas generator consisting of a tapered combustion chamber to the larger end of which air, oil and water are supplied. 1.

208. Wilson Brothers Bobbin Co. & Wilson, H. W.—9 Dec. 1908; UK. 753, 13 Jan. 1908. Loom shuttle with volute spring for holding the peg. 1.

209. Boddington, H.—9 Dec. 1908. Window, shutter and ventilator combined, applicable as a porthole for ships, etc., having revoluble discs containing glass, gauze and opaque material. 4.

210. Dyer, R. E. H.—8 Jan. 1909; UK. 9559, 2 May 1908. Range-finder, attachable to sketching tables, with mirrors and angularly movable sighting bar or telescope. 3.

211. Ralli, L. E., & Argenti, P. L.—13 July 1908. Roller gin with adjustment in crank and connecting rod. 1.

212. Byrne, N. A. E. C.—21 Aug. 1908. Padlock with revolving shackle secured by a vertically sliding block. 2.

213. Stuart, A. R.—2 July 1908 Railway chair keys of spring steel, shaped from plate, and tightened and held by a wedge cotter. 2.

214. Erste Triester Reisschal Fabriks Aktiengesellschaft.—15 Sept. 1908; UK. 4719, 2 Mar. 1908. Finish for cloth, etc., consisting of starch, partly converted into dextrin, with addition of fatty acids or compounds, such as soaps.

215. Giesen, W. B., & Ryan, E. T.—15 Sept. 1908. Pneumatic, etc., tyre cover with embedded metal mesh or chain fabric with or without metal tread. 1.

216. Tice, W.—3 Dec. 1908. Smoke prevention as described in No. 194 of 1908 with addition of fresh air to the smoke on returning it from the chimney to the furnace. 1.

217. Allah Dad Khan.—Perpetual motion.

218. Snee, W.—18 June 1908; UK. 8569, 16 April 1908. Motor with radial and inclined deflecting blades on a wheel working inside a ring of stationary deflecting blades, applicable for water or wind, etc., power. 2.

219. Schuerch, J., & Himmel, G.—19 June 1908; UK. 5691, 13 March 1908. Electric generators for continuous and alternating currents, construction of poles and armatures. 7.

220. Whitney, A., & Skipwith, F. E.—8 Dec. 1908. Railway signalling apparatus for exchanging tokens or tickets between line and train in motion. 3.

221. Hatmaker, J. R.—25 Jan. 1909; UK. 12,783, 1 June 1906. Milk and other proteid containing liquids, such as eggs, etc., are dried very rapidly in thin films, the time preferably not being over 2½ seconds.

222. Douglas, C. H.—Spinning.

223. Nesfield, V. B.—16 Dec. 1908. Saucepans, etc., for boiling milk, etc., with hermetically sealed water jacket. 1.

224. Mershon, R. D.—25 June 1908. Electric insulating supports for high tension conductors. 3.

225. Linotype & Machinery, Ld.—22 Dec. 1908; UK. 19,567, 31 Aug. 1907. Linotype assembler details for unlocking, turning, and preventing turning in case the line is too short. Improvements on No. 529 of 1903. 4.

226. Michaud, G., & Delasson, E.—4 July 1908; UK. 8104, 11 April 1908. Filaments for lighting and heating produced from modifications of the mixtures described in No. 527 of 1907, with preliminary heating by blow-pipes before electric heating. 1.

227. Crouch, J. P.—4 July 1908; UK. 4150, 19 Feb. 1907. Railway wagons or vans with arrangement of sliding doors and roof openings to give clear way for loading. 4.

228. Renard Road and Rail Transport Corporation, Ld.—16 Dec. 1908; UK. 5869, 11 March 1907. Renard road trains with each vehicle carrying electromotors supplied from generator on the locomotive. 1.

229. Remy (Mrs.), M.—7 Dec. 1908. Child's cots of folding type, attachable to bedsteads. 1.

230. Speirs, P.—3 July 1908; UK. 22,024, 5 Oct. 1907. Agricultural ploughs of the disc type. 1.

231. Fitzmaurice, H., & Nandi, S. C.—22 Jan. 1909. Water lift of the scoop wheel type with axial discharge 2.

232. Gracey, H. K.—Vacuum bottles.

233 Musgrave, H. A. F.—Rifle silencer.

234. DeBrunner, W. E.—Steam generator.

235. Gresham, H. E., & Kiernan, G.—16 Dec. 1908; UK 23,135, 19 Oct. 1907. Railway vehicle vacuum brake apparatus with means for preventing leakage. 4.

236. Navaratna, M. V.—Medicines.

237. Blackwell, E. O.—9 July 1908. Ships' ventilators with means for closing them by hand, or automatically by floats, connections to indicators or alarms and to means for admitting compressed air to compartments to expel water. 2.

238. Parker Machine Co—10 July 1908; UK. 13,226, 7 June 1907. Typewriter with adjustable supporting means for the platen. 4.

239. Fischer, A.—7 Aug. 1908. Ash is separated from furnace gases by an arrangement of inclined baffles in the flue, etc. 1.

240. Bellini, E., & Tosi, A.—5 Jan. 1909. Wireless telegraphy on a directed system with superposed phase waves on directed and uniform transmission or reception antennæ, giving one direction only. 1.

241. Bevan, I., & Anderson, F.—5 Jan. 1909; UK. 9597, 4 May 1908. Straight way valves of gate or other types constructed with casings consisting of ordinary tee or three way pipe. 1.

242. Lessing, W., & Stiefelhagen, W.—9 July 1908. Cement made from blast furnace slag by delivering the molten slag with addition of other materials to a series of rapidly revolving drums and also adding chemical solutions. 1.

243. Schmitt, J.—21 Aug. 1908; UK. 12,033, 24 May 1907. Artificial wool is made from cotton, jute or other raw vegetable fibres by treatment with alkali, followed by acid.

244. Silk, W. W. H.—15 Jan. 1909. Railway wagon door fastening, comprising a bolt passing through a cotter and staple, and a seal over the bolt covered by a hinged plate which is secured by a screw or split pin. 2.

245. Brukner, M.—13 Jan. 1909; UK. 26,315, 20 Nov. 1906. Railway sleepers of reinforced concrete with wooden wedges inserted. 1.

246. Abdul Rahman.—Rat trap.

247. Lynn, T.—Railway wagon locks.

248. Sartig, J.—13 Jan. 1909; UK. 25,403, 10 Nov. 1906. Tobacco is treated with superheated steam at 100° to 150° C., air being excluded, to remove nicotine, which may be recovered in a condenser. 1.

249. Sutherland, P.—23 Sept. 1908. Flow and level of liquids controlled by valve and float in a subsidiary reservoir in which the level is controlled by overflow from, and a float in, the main stream. 1.

250. Hathaway, F. F., & Lanning, C. D.—17 July 1908; UK. 6742, 26 March 1908. Weaving-machine for drawing warp threads through heddles, drop bars, etc. 9.

251. Shearer, W.—16 July 1908; UK. 14,984, 3 July 1907. Oil gas carburettor of the surface type. 1.

252. Stuart, C. H., & Snell, C. S.—16 July 1908; UK. 13,679, 13 June 1907. Air and gas compressor, specially applicable in gas lighting, combined with hot air motor. 3.

253. Mackenzie, E. B., N. H. & M. K.—16 Jan. 1909; UK. 20,828, 19 Sept. 1907. Horseshoe making machine. 5.

254. Brown, F. C.—16 Jan. 1909; UK. 23,493, 24 Oct. 1907. Grinding mills of tube or ball types with special construction of renewable linings. 1.

255. Auchary, P. V. M.—21 June 1909. Safe with hand-cuff attachment for catching thieves. 3.

256. Deakin, W. H.—21 June 1909. Railway signalling—devices for giving audible signal on engine when signal is at danger and indicating or recording attachments. 3.

257. Jyotish Chandra Chakravarti.—22 Feb. 1909. Filter with sand, etc., on removable trays. 1.

258. Newbould, M. G.—26 Feb. 1909. Electric cut-out for broken trolley wires on electric traction systems. 1.

259. Toyoda, S.—10 Nov. 1908. Loom automatic shuttle changing mechanism. 6.

260. Millington & Sons, Ld.—28 July 1908; UK. 17,234, 27 July 1907. Gumming device for envelope, bag and like machines. 1.

261. Millington & Sons, Ld.—28 July 1908; UK. 17,235, 27 July 1907. Disengaging or stop gear for rollers in paper machinery, operated by breakage of the paper; applicable to bag, envelope or other machines. 1.

262. Chaveriat, V.—13 Jan. 1909; UK. 12,087, 3 June 1908. Railway brake mechanism with automatic cam and ratchet gear for taking up wear. 1.

263. Winter, C.—6 Aug. 1908. Bottle seal or stopper of the inside type having a divided spring, holding a washer in a groove, arranged to be removable by the fingers. 1.

264. Seehausen, O. J.—26 Feb. 1909. Oil gas generator for lighting gas, construction of vaporizer and air mixer. 3.

265. Fryklind, K. E.—30 July 1908; UK. 1356, 20 Jan. 1908. Night-soil is treated with quicklime in an arrangement of boilers and heating appliances and ammonia is recovered. 4.

266. Friedlaender, A.—30 July 1908; UK. 5770, 14 March 1908. Umbrellas with reinforcement for ribs and special runners. 2.

267. Kempshall, E.—16 Jan. 1909; UK. 19,419, 29 Aug. 1907. Tyres of the air pocket non-skid type with special construction of the ridges. 2.

268. Gray, W.—16 Jan. 1909; UK. 12,078, 3 June 1908. Cooking vessels of digester or high pressure type, construction of lid and fastenings and of safety vents. 2.

269. Renard Road and Rail Transport Corporation, Ld.—26 June 1909; UK. 5870, 11 March 1907. Renard road trains with electric drive. 1.

270. Doremus, W. D.—10 Nov. 1908; UK. 11,855, 1 June 1908. Cotton gin of multiple saw type. 7.

271. Constantine, P. H. & F. W., & K[illegible]y, T. G.—3 Feb. 1909; UK. 2308, 30 Jan. 1907. Spinning flyer frames with automatic means for regulating tension or drag. 5.

272. Humphrey, H. A.—13 Aug. 1908; UK. 18,594, 16 Aug. 1907. Pump or water lift in which the water is lifted by direct action of gas explosion; improvements on No. 421 of 1907. 4.

273. Humphrey, H. A., & Rusdell, W. J.—13 Aug. 1908; UK. 18,595, 16 Aug. 1907. Similar to No. 272 above. 4.

274. Humphrey, H. A.—13 Aug. 1908; UK. 19,341, 28 Aug. 1907. Similar to Nos. 272 and 273 above. 3.

275. Judge, C. G. L., & Saxby & Farmer (India), Ld.—4 Feb. 1909. Railway point detector and signal interlocking gear with means for ensuring that both tongues are in correct position. 5

276. Tully, C. W.—3 Feb. 1909. Lubricators with special worsted packing to control flow. 1.

277. Empire Duplex Gin Co.—8 Sept. 1908; UK. 11,428, 26 May 1908. Cotton gin with two rollers and a revolving stripper, one roller and stripper revolving in the same direction. 2.

278. Ambika Charan.—Abacus.

279. Easson, C.—12 Dec. 1908; UK. 21,322, 26 Sept. 1907. Table with collapsible legs and a folding reversible top which is adapted for games on one side. 1.

280. " Z " Electric Lamp Manufacturing Co.—3 Feb. 1909; UK. 2554, 1 Feb. 1906. Electric incandescent lamp filaments are made from hydrogenous or nitrogenous compounds of chromium, molybdenum or tungsten, alone or in combination : also preparation of those compounds with the aid of zinc or large excess of more vigorously reducing metals.

281. Anderson, W. & H.—3 Feb. 1909; UK. 4112, 19 Feb. 1907. Lamps with one or more inverted incandescent burners, antivibration and air heating details. 2.

282. Lynn, T.—Railway vehicles.

283. Karter Singh.—Disinfecting.

284. Bowles, G. B.—15 Sept. 1908; UK. 27,547, 13 Dec. 1907. Railway brake mechanism with automatic ratchet gear for taking up wear. 1.

285. Offord, W. F.—23 Feb. 1909; UK. 6195, 14 March 1907. Surgical trusses. 2.

286. Waddell, W. S.—Baling press.

287. Krishna Chandra Dass.—1 March 1909. Oil chimneyless lamps with hinged air deflectors having curved tops, adjusted by camfork and screw or slide. 1.

288. Skone, T.—Ball castors.

289. Dustoor, M. R., & Mistry, S. D.—23 Feb. 1909. Cotton gins of the Macarthy type with reciprocating rod or bar in the feed and a grid or perforated floor in the hopper. 2.

290. Godrej, P. B.—23 Feb. 1909. Lock of the lever type without springs, the rise and return of the levers being controlled by a second key which may be separate from, or combined with, the main key, or may be fixed and controlled by a letter combination. 3.

291. Prante, P.—24 Feb. 1909. Husking and splitting machine for cereals with flexible strip on a revolving drum working over a grid surface. 2.

292. Rundlett, D. G.—12 Feb. 1909. Railway signal wire compensator with cranks and counterweight. 1

293. Wolff, W. H.—16 Dec. 1908. Sewage and other liquids are mixed or diluted automatically by an arrangement of mixing tanks, siphons and periodic water supply. 2.

294. Saxby & Farmer (India), Ld.—26 Feb. 1909. Railway point and signal operating and interlocking apparatus of mechanical type in conjunction with key lock. 5.

295. Allen, B. C. A.—Gun sights.

296. Mudali, K. R., & Naygar, S. S. B.—3 May 1909. Safe with hand-cuff attachment for catching thieves. 4.

297. Thom, T M.—3 Feb. 1909; UK. 15,667, 8 July 1907. Artificial stone blocks. produced by treating mixtures of stone, marble, etc., and lime with carbonic acid, are made with a core which may be of inferior or lighter material. See also No. 385 of 1906 and No. 376 of 1907.

298. Thom, T. M.—3 Feb. 1909; UK 15,964, 11 July 1907. Lithographic stone is made by submitting mixtures of ground slag and lime, with or without other stone, to the action of carbonic acid.

299. Lindsay, J. A.—3 Feb. 1909; UK. 4594, 29 Feb. 1908. Buffer cylinders for rolling stock are made from solid steel ingots by a succession of piercing and swaging processes. 2.

300. Mee, R. J. P.—2 March 1909. Railway drawbar shackle and pin connection, the pin having caps tapered from their centres. 1.

301. Norman, J. E.—3 Sept. 1908; UK. 17,399, 30 July 1907 Manifold book or pile of sheets with writing board and carbon sheets. 1.

302. Duclos, A.—Railway vehicles, ventilation.

303. Gul Mahommed.—Perpetual motion.

304 Rivar, C. S.—Tea, rolling.

305. Pundt, A. E.—11 Nov. 1908. Cans for kerosene with vertically corrugated corners. 1.

306. Theobald Brothers.—4 March 1909. Taxidermy, hollow paper casts are used in the head instead of clay, etc., models.

307. D'Cruz, J. E. A.—Tiles.

308. McIntire, C. S.—5 Jan. 1909; UK. 2075, 29 Jan. 1908. Chains made by casting links in chain form in special moulds. 3.

309. Westinghouse Metal Filament Lamp Co.—3 March 1909; UK. 20,210, 11 Sept. 1906. Electric incandescent lamps with the metallic support for the metallic filament coated with a thin layer of the oxide or other compound of the metal of which the support is composed. 1.

310. Palmer, W. H.—3 March 1909. Blasting explosive containing ammonium perchlorate, dinitrololuol, sodium nitrate, aluminium, and paraffin or other wax.

311. Bergmann, C.—3 March 1909; UK. 11,308, 25 May 1908. Spinning, the cop in ring spinning, doubling and twisting machine is pushed down on the spindle by a reciprocating head with detachable cap. 1.

312. Hanman, J. L.—3 March 1909; UK. 8389, 15 April 1908. Rotary pumps, etc., of the Roots blower type. 2.

313. Lambert, M.—3 March 1909; UK. 28,420, 24 Dec. 1907. Railway trucks of platform type for timber, etc., with frames trussed by cables and with swivelling mountings for buffers and couplings. 3.

314. Smith, W. T.—11 Sept. 1908; UK. 18,075, 9 Aug. 1907. Wheels for motor cars, etc., with detachable expanding rim 1.

315. Ramanath Mundul.—9 Feb. 1909. Harmonium reed frames. 1.

316. Ashworth, S. H.—Valve and cocks.

317. Simpson, R. M.—12 Dec. 1908. Ore washing apparatus with revolving table. 2.

318. Bornkessel, P.—15 March 1909. Glass tubes are closed or worked in a ring or are of centrally directed gas jets. 1.

319. Farmer, R. J.—5 Jan 1909. Closet or privy of dry earth or similar type with turn-over valve or pan supplied with disinfectant. 4.

320. Subramanian Servai, A.—21 Jan. 1909. Water lift worked by large vertical capstan wheel. 2.

321. M. Muhammad Din & Co.—1 May 1909. Polo sticks, method of securing cane in head. 1.

322. Knox, H S.—Railway points.

323. Sanderson, H. St. J., Isaacson, R. J., Wardle, E., Firth, J. E., & Charlesworth, C. E.—3 Feb. 1909; UK. 27,899, 18 Dec. 1907. Valve gear linkage for locomotives and other steam, etc., engines. 1.

324. Pittler Universal Rotary Machine Syndicate.—3 March 1909; UK. 5081A, 2 March 1907. Rotary engines and pumps of the annular chamber type. 12.

325. Bowman, N. K.—20 April 1909; UK. 14,061, 18 June 1907. Railway mail transfer apparatus. 1.

326. Wright, T. W.—Phonographs.

327. Hemendra Nath Roy.—9 March 1909. Pen-holder with two pens for writing duplicates and paper-holder for use therewith. 3.

328. Graham, C. McL.—7 April 1909; UK. 15,342, 20 July 1908. Electric insulators with combined wood and metal supports. See also No. 374 of 1908. 1.

329. Cook, J. W.—Looms.

330. Durga Das Gupta.—30 Jan. 1909. Combs with reservoir for holding and supplying oil. 1.

331. Rahamali Sadagar and Jamirulla Miaji.—Medicine.

332. Skelton, A. W. C.—Railway chairs.

333. Lees, A. McC.—14 April 1909. Railway signal locks, worked by release and pull as described in No. 58 of 1906 or by ordinary methods, arranged to work the second or warner signal. 4.

334. Abdul Rahim & Abdul Kurrim.—16 March 1909. Ball bearings for vertical rolls of sugarcane mills mounted in cup which is free to move laterally. 1.

335. Westinghouse Metal Filament Lamp Co.—3 March 1909; UK. 18,812, 22 Aug. 1906. Electric incandescent lamps with supports for metallic filaments made of refractory oxides or carbon impregnated with difficulty fusible metals.

336. Westinghouse Metal Filament Lamp Co.—20 April 1909; UK. 18,923, 22 Aug. 1907. Electric incandescent lamps with the filament secured to the leading-in wires by metal produced by the reaction between certain oxides and metal capable of reducing those oxides.

337. Lewis, H.—3 March 1909. Composition of disintegrated leather, rubber, fibrous material with vulcanizing, colouring and other materials for use as a leather substitute. 1.

338. Graves, A. E. P.—Tallying.

339. Crooks, J.—13 Jan. 1909. Railway rail joint with rail ends tongued together. 1.

340. Freneff, A.—Bridges.

341. Hayes, J. A. J.—28 Sept. 1908; UK. 9367, 22 April 1907. Printing machines of the continuous rotary type for printing several colours. 1

342. Hayes, J. A. J.—28 Sept. 1908; UK. 9365, 22 April 1907. Printing machines of the continuous rotary type for printing in one or more colours or inks. 4.

343. Foden, W., & United Kingdom Self-adjusting Anti-friction Metallic Packing Syndicate, Ld.—10 Oct. 1908; UK. 10,446, 14 May 1908. Metallic packing for stuffing boxes, etc. 2.

344. Sage, G. W., & Pine, N. H.—10 Nov. 1908; UK. 15,356, 20 July 1908. Electric sparkling device for gas engines, etc. 1.

345. Lasbury, G. A. C.—Railway wagon lock.

346. Imbert, H.—23 Sept. 1908; UK. 6064, 18 March 1908. Sewing machines fitted with fans to disperse dust and supply fresh air. 1.

347. Sayer, R. C.—20 Oct. 1908; UK. 10,006, 8 May 1908. Transit system with electric driving and automatic control and transfer of vehicles, goods, etc. 5.

348. Walton, F.—23 April 1909; UK. 12,978, 17 June 1908. Pneumatic spring suspension for road vehicles. 2.

349. Wimmer, K. H.—3 March 1909. Coffee free from caffeine is obtained by steaming the green berries prior to extraction with a solvent.

350. Sabatier, P.—23 April 1909; UK. 14,971, 14 July 1908. Methane or mixed methane and hydrogen is produced by first removing carbonic acid from water gas and then passing it over nickel. 1.

351. Saxby & Farmer (India), Ld.—29 March 1909. Metal bending machine for making flat iron lattice bars for railway signal posts, etc. 2.

352. Thomas, W. M.—5 April 1909. Floor and roofs of double jack arch construction with ventilators. 1.

353. Mount, L. Le B.—28 Oct. 1908; UK. 18,417, 14 Aug. 1907. Furnace of reverbatory type with recuperators for melting metals, glass, etc., or for roasting or calcining purposes. 1.

354. Gibbs, H. P., & Ormerod, H. E.—16 April 1909. Wheels for pneumatic tyres with detachable part of rim and holding bolts. 2.

355. Mirza Mahamed Manzur Ali Khan.—19 Oct. 1908. Looms of hand-driven type with picking, shedding, beating up and taking up motions driven from main and half time shafts by cranks and tappets; also construction of picking levers and head frames. 1.

356. Addis, F. H.—16 Oct. 1908. Shoe with external tongue and lace fastening. 1.

357. Granieri, L.—28 Oct. 1908; UK. 9540, 2 May 1908. Axle trees for road vehicles carrying the wheel spindles by parallel motions of which the play is controlled by coiled, pneumatic, or other springs. 1.

358. Pollen, A. H.—Linotype.

359. Oakley Steel Foundry (1907), Ld., & Buchholtz, E.—28 Oct. 1908; UK. 8378, 10 April 1907. Furnaces for steam generators with liquid fuel fittings. 2.

360. Oakley Steel Foundry (1907), Ld., & Buchholtz, E.—28 Oct. 1908; UK. 6851, 27 March 1908. Furnaces for steam generators, etc., with liquid fuel fittings. 7.

361. Chipperfield, W. H.—19 May 1909; UK. 20,521, 15 Sept. 1906. Air and gas compressor for lamps worked by air expansion. 1.

362. Friese-Greene Patents, Ld.—20 Oct. 1908; UK. 11,791, 30 May 1908. Cinematograph apparatus for coloured effects, the pictures being taken and projected through coloured screens on the three-colour principle. 2.

363. Syed Mahdi Husain.—Locks.

364. Arbuckle, A. J., & Osborne, A.—19 May 1909; UK. 17,756, 24 Aug. 1908. Ore, slimes, and other solid matter is separated from liquids by settling apparatus of conical form with revolving drums and liquid closure below. 2.

365. Dighe, G. H.—Centrifugal fans.

366. Bell, J. M.—7 April 1909. Hopper for grain and other horse food, etc., with measuring or indicating attachment, locks and means for supply liquid to the material withdrawn. 1.

367. Bana, H. K.—1 March 1909. Pumps with several cylinders in sets, each set being driven by a single crank or eccentric. 3.

368. Poore, R.—16 Oct. 1908; UK. 5812, 16 March 1908. Door safety fastening for railway vehicles, motor cars, etc., consisting of a bolt operated by the rush of air when the vehicle is in motion. 1.

369. Suter, F. W.—7 April 1909; UK. 11,734, 19 May 1906. Lamps with carburettor adjustable to control supply of carburetted and non-carburetted air simultaneously. 1.

370. McMullen, G. W.—3 June 1909. Sugar manufacture involving the crushing or cutting and drying of sugarcane, beet, etc., and diffusion prossesses for extracting sugar from the dried material.

371. Giles, R. R.—10 Dec. 1908. Ice-making apparatus on the fixed can system, circulation of cooling agent, arrangement and construction of cans, pipes and agitators. 4.

372. Pillai, M. D.—Perpetual motion.

373. Akbar Ali.—4 March 1909. Looms for narrow work, construction of shuttle, throwing and guiding mechanism. 1.

374. Graham, C. M.—20 April 1909; UK. 15,341, 20 July 1908. Electric insulator similar to No. 328 of 1908. 1.

375. Klatte, O.—Tools.

376. Gregory, A. T.—5 Nov. 1908. Railway chair sleeper of cast iron with roughened steel grips in jaws, extra rib and cotter. 1.

377. Payne, C. Y.—Flooring.

378. Williams, W. G.—20 April 1999. Sun heat is utilized for treating ores by concentrating the rays by reflectors on to a crucible furnace and volatilizing the metal into condensers. 3.

379. Coal Treating Co.—6 July 1909; UK. 14,558, 9 July 1908. Fuel combustion controlled, etc., by addition of chemicals, etc.

380. Surapati Ghatak.—26 April 1909. Paddy boiler or steamer of sheet iron with top and bottom doors. 1.

381. Lyall, F.—Card marker.

382. Hooker, W.—28 Oct. 1908; UK. 5862, 16 March 1908. Air is supplied for various purposes by a combination of a holder, bellows or pump, etc., and motor, the latter being electrically controlled by the movement of the holder. 1.

383. Foust, H. W.—23 Oct. 1908; UK. 18,051, 8 Aug. 1907. Ore jig with plungers on each side of the sieve compartment from which ore is discharged by a valve. 2.

384. Noad, J., & Townsend, E. J.—23 Oct. 1908; UK 13,675, 27 June 1908. Mineral and other oils are converted into lighter oils or spirit by bringing them in the form of vapour mixed with water vapour, into contact with a considerable area of heated iron.

385. Wadia, D. M.—6 April 1909. Cotton carding machines with automatic stop motion. 1.

386. Ellectrelle Co.—10 Feb. 1909; UK. 7233, 1 April 1908. Pianos and similar instruments with perforated music rolls and electro-magnetic mechanism. 6.

387. Raikes, H. G.—20 April 1909. Casks and other vessels for inflammable liquids fitted with wire gauze, cap and fusible plug as safety appliances. 1.

388. Maschinenfabrik Munchen, G. m. b. H.—20 April 1909; UK. 10,077, 9 May 1908. Cigarette paper strip is furnished with mouthpiece and bronze at desired intervals by automatic machinery. 1.

389. Kron, R.—20 April 1909; UK. 19,621, 2 Sept. 1907. Fibrous plants are disintegrated, opened or reduced, for the production of fibre, paper pulp, or animal food by a boiling process conducted at temperature up to 130 to 180 C. in such a manner as to develop the organic acids.

390. McGauley, W. H.—20 April 1909; UK. 15,532, 22 July 1908. Lubricating sleeve bearing of spindles in spinning machines. 1.

391. Fowles, W.—Food.

392. Skelton, A. W. C.—Springs.

393. Jones, E. I.—20 April 1909. Belting for jute spinning machinery consisting of woven or other cotton or fibrous tube with sewn ends.

394. Dinwoodie, D.—28 April 1909. Railway point and signal locks are operated or controlled with the aid of block instrument vouchers or tokens. 8.

395. Pancser, M. L.—9 March 1909. Tiller or holding tool with catch for gripping and turning rods, bars, etc. 1.

396. Mortimer, P.—30 Oct. 1908; UK. 13,220, 7 June 1907. Hurdles for racing purposes with top sections which yield and return if touched. 1.

397. Mieville, M. F.—30 Oct. 1908. Carburettor with perforated tubes delivering air over and under the spirit, in conjunction with air and gas holders and safety valve. 2.

398. Stephenson, J. G. L.—30 Oct. 1908; UK. 17,935, 26 Aug. 1908. Carburettor with alternate baffles, or shelves down which the spirit flows. 1.

399. Forster, J.—20 April 1909; UK. 18,373, 1 Sept. 1908. Glass blowing appliances, especially for making cylinders used for making window glass. 2.

400. Fessenden, R. A.—6 Nov. 1908; UK. 13,865, 30 June 1908. Wireless telegraphy with altering group frequency of continuously generated electromagnetic waves. 2.

401. Maynard, F. H. M.—24 Feb. 1909. Husking or crushing machine for paddy with horizontal wooden grinding surfaces, one adjustable and the other revolved by gearing and hand crank or otherwise. 1.

402. Sorabji Byramji Patel.—22 March 1909. Baling press for bhoosa, cotton, etc., of direct acting hydraulic type with dividing arrangements so as to make one or three bales at once. 2.

403. Dudley, R.—22 Feb. 1909. Water supply and waste preventer with valve controlled by ball float to which a part of the water passes. 2.

404. Linsell, F. G.—Shirts.

405. Briscoe, R.—17 May 1909. Tea blended with small proportions of other substances such as lemon grass, kola nut, cinchona bark and eucalyptus leaves.

406. Jackson, W.- 16 Jan. 1909; UK. 18,866, 8 Sept. 1908. Tea, etc., drying apparatus with arrangements for checking escape or leakage of air. Reference is made to No. 58 of 1908 and No 178 of 1906. 1.

407. Oxychlorides (1907), Ld.—7 Aug. 1909; UK. 21,566, 28 Sept. 1907. Sewage treatment by septic or other processes with addition of deodorants, such as oxychlorides. 1.

408. Consolidated Brake and Engineering Co., Ld., & Luard, E. S.—10 Nov. 1908; UK. 16,097, 12 July 1907. Railway vehicle brakes with double ratchet gear to take up wear automatically. 1.

409. Henry Simon, Ld.—1 July 1909; UK. 9946, 7 May 1908. Flour treated with moistened air.

410. Williams, A. J. B.—10 Nov. 1908; UK. 4119, 24 Feb. 1908. Feeding bottles. 1.

411. Lecoch, J.—3 May 1909; UK. 15,780, 12 July 1906. Worm gearing with magnetic or electromagnetic arrangements to reduce friction. 1.

412. Gibson, H.—Railway vehicles.

413. Lagrange, P., & Kestner, P.—19 Nov. 1908. Sugar manufacture, process of steam evaporation of syrups at atmospheric pressure or above and crystallizing.

414. Reineke, J. H.—19 Nov. 1908; UK. 17,936, 26 Aug. 1908. Electric generator in which magnetizable particles such as iron filings are carried by an air current or otherwise through a stationary magnetic field and a stationary induction circuit. 1.

415. Deighton, K. W.—21 June 1909. Lock fastening or seal with earthenware disc for railway wagons. 4.

416. Ralli, L. E., & Argenti, P. L.—Baling press.

417. O'Driscoll, J.—Posts.

418. Cowie, T.—Furniture.

419. Woods, E.—4 Dec. 1908. Cotton gin rollers built up of wood veneer discs, arranged so that the fibre crosses, and compressed.

420. Lawson, A.—12 Dec. 1908. Breaking-in appliance for horses and other animals, consisting of a wheeled frame pivoted on a fixed centre. 1.

421. Ewin, W. B.—Railway vehicles.

422. West's Patent Press Co.—21 Nov. 1908. Cotton gins of the Macarthy type with grid pusher and feed boards and adjustable link support for the frame carrying the knives and the seed grid. 1.

423. Thomas Evans & Sons (Poplar), Ld.—20 April 1909. Furnace with smoke consumption by air supply through the door and bridge controlled by opening and closing the door. 2.

424. Arbuckle, A. J., & Osborne, A.—20 April 1909; UK. 20,400, 28 Sept. 1908. Filtering apparatus of rotary continuous type specially for treating cyanide ore slimes. 2.

425. Harrison, F., & Dorman, C. H.—20 April 1909; UK. 23,988, 30 Oct. 1907. Tungsten compounds with carbon and oxygen produced by reducing the oxide or boiling the metal in presence of an organic substance.

426. Hillman, C. J.—20 April 1909; UK. 1359, 18 Jan. 1907. Photographic printing frame for copying engineering drawings. 1.

427. Metals Extraction Corporation.—20 April 1909; UK. 23,901, 29 Oct. 1907. Zinc extraction process by roasting and treating the volatilized products with sulphurous acid, precipitation as monosuphite which is calcined. Reference is made to No. 219 of 1907.

428. Monotype Machine (Colonial Patents) Syndicate.—7 Aug. 1909; UK. 17,199, 15 Aug. 1908. Record or controller strip making machines for use with monotype printing, etc. 9.

429. Schnarre, A. W. K.—Rifle silencer.

430. Harker, G.—20 April 1909. Disinfecting or fumigating ships, etc., by washed and cooled furnace gas charged with disinfectant, etc., arrangement of scrubbing, pumping, etc., apparatus. 2.

431. Stephens, W. C.—12 Dec. 1908. Rock drills of percussive type with arrangements for supply of water to the bit and for simultaneous control of motive fluid. 1.

432. Stephens, W. C.—12 Dec. 1908; UK. 7630, 6 April 1908. Rock drills of the percussive type with air actuated hammer cylinder and feed cylinder side by side; also details of supports, etc. 1.

433. Disney, G. W., & Ward, H. F.—20 March 1909. Car transfer system for broad and narrow gauge lines with lifts for raising bodies and transfer tables for bogies. 1.

434. DeDion Bouton (1907), Ld.—30 Aug. 1908; UK. 15,558, 22 July 1908. Ball bearing for bevel gear of motor cars, etc., arranged to take the side thrust. 1.

435. Carey, W. R.—Paper manufacture.

436. Carey, W. R.—Paper manufacture:

437. Allen, H. W.—31 May 1909. Monorail railway system.

438. Weidmann, M., & Spoerri, J.—26 Nov. 1908; UK. 18,425, 2 Oct. 1908. Metal punching machine with toggles and screw for hand operation. 2.

439. Abraham, B. M., & Glenn, S. L.—20 April 1909; UK. 20,619, 30 Sept. 1908. Railway signalling with electric control of signals by train in the block. 1.

440. Lajoie, J. P.—20 April 1909; UK. 19,648, 18 Sept. 1908. Water softening apparatus. 1.

441. Gunyon, S. E.—20 April 1909; UK. 16,978, 12 Aug. 1908. Knot tying tool for yarns, etc. 2.

442. Walter, H. N.—2 Jan. 1909. Railway vehicle folding foot-boards operated by the opening and closing of the doors. 1.

443. Lethbridge, S.—1 March 1909. Railway vehicle safety door lock controlled by vacuum or pressure from the brake pipes. 2.

444. Chatterjee, B. C.—3 May 1909. Electric switch with rotary arm for connecting one, two or more lamps or groups of lamps. 1.

445. Walter, E. L.—2 Dec. 1908; UK. 3711, 19 Feb. 1908. Fire extincteurs, acid bottle support and closure. 2.

446. Pollard, F. A.—19 May 1909; UK. 18,734, 8 Sept. 1908. Refrigerating apparatus with thermostatic control of the supply of liquefied gas. 1.

447. Société francaise des Wagons Aerothermiques.—18 March 1910; UK. 18,858, 8 Sept. 1908. Refrigerated railway vehicles with methyl chloride compression plant driven from the axle. 1.

448. Grand Rapids Veneer Works.—8 Dec. 1902. Drying lumber in steam-heated chambers, the air humidity being under control. 4.

449. Blum, J., & Carpenter, A. W.—8 Dec. 1908. India-rubber substitute made from isoprene-like products of the fermentation of peat, mixed with nitrogenous iron derivatives, prepared from iris roots and mineral salts.

450. Rutnagur, S. M.—16 Aug. 1909. Railway vehicle doors and windows with movable bar protectors and movable foot-boards; protectors and foot-boards are provided with alarm attachments.

451. Auto-Hydraulic, Ld.—24 May 1909; UK. 14,838, 13 July 1908. Water, sewage, etc., lifts of the pneumatic type. 1.

452. Homan, W. M.—19 May 1909. Sundial with adjustments for indicating solar time, etc. 3.

453. Torkington, A. W.—19 Dec. 1908; UK. 22,978, 18 Oct. 1907. Rubber tyres for motor cars, etc., with floating rings or link chains secured to the rubber at the sides. Improvements on No. 109 of 1908. 1.

454. Williamson, T.—11 May 1909. Safety stop gear for machinery with feed tables such as jute softening machines, consisting of a bar or apron connected to the belt shifter. 1.

455. Deperdussin, A.—14 May 1909; UK. 17,862, 25 Aug. 1908. Optical toy or magic lantern for throwing pictures from picture postcards on a screen. 1.

456. Motheral, W. B., & Happel, F. F.—30 March 1909. Boat with wedge-shaped hull, specially curved sections and air supplied through the bottom. 1.

457. Freymuth, W. A.—19 April 1909. Lac refining processes involving the crushing and washing of the raw material, melting the separated lac and treating it in centrifugal separators, which may be arranged for chilling the final product. 1.

458. Harrison, F. H., Ross, J. W. B., & Babbington, H.—8 June 1909. Acetylene lamp attachment for rifles. 1.

459. Dhanna Ram Heeralal.—20 April 1909. Fan worked by foot power.

460. Stent, D. H.—11 May 1909. Railway signal wire compensator with ratchet gear on the lever. 2.

461. Watson, J. A. M.—23 Dec. 1908. Folding frame work for furniture, folding ladders, etc., consisting of two half bamboos or semi-circular tubes connected by pivoted links. 1.

462. Smith, S.—17 Dec. 1908; UK. 26,461, 30 Nov. 1907. Carburettor with holder which automatically controls the supply of air to itself and the carburettor from a storage vessel. 1.

463. Quick, J.—17 Dec. 1908; UK. 8092, 11 April 1908. Vapour burners with preheating device consisting of an air supply tube containing fuel. 1.

464. Lamplough, F., Peyrecave, L. F. M. de, & Thomas Evans & Son (Poplar), Ld.—Rotary engines.

465. Linotype & Machinery, Ld.—16 June 1909; UK. 23,009, 18 Oct. 1907. Linotype machines with quick change arrangements for magazines. 11.

466. McDonald, E. D.—19 May 1909; UK. 19,592, 17 Sept. 1908. Railway sleepers of armoured concrete, made reversible with special rail beds and metal sleeves to receive and secure angular rail spikes. 1.

467. Stephenson, J. F.—19 May 1909. Bedstead joints with double dovetail blocks. 1.

468. Taylor, G. E.—25 Aug. 1909; UK. 27,572, 13 Dec. 1907. Tablets of paraformaldehyde, trioxymethylene or metaformaldehyde with binding material for sterilizing, preserving or antiseptic purposes.

469. Allen, H. W.—Railways, monorail.

470. Winsor, S. A.—Spinning.

471. Muirhead, J. R., & Lyons, P. A.—Railway vehicles.

472. Porteous, L. G., & Thompson, R. D.—13 July 1909. Railway signalling apparatus for exchanging tokens between engine and line. 1.

473. Campbell, C., Hamilton, A. H. C., & Watson, W. J.—22 May 1909. Railway door lock which is shot by a governor, worked from the wheels, when the vehicle is in motion. 4.

474. Cox, C. T.—3 Sept. 1909. Railway, etc., signalling with two wires moving in opposite directions, one to work a detector and the other to work the signal.

475. Arbuckle, A. J., & Osborne, A.—19 May 1909; UK. 21,452, 10 Oct. 1908. Filtering apparatus of the semi-continuous type adapted for treating cyanide slimes, etc. 2.

476. Ralli, L. E., & Argenti, P. L.—19 Feb. 1909. Hydraulic press with intensifier and revolving table for re-pressing burst jute, etc., bales. 1.

477. Haji Kutabdin Kazi Hassan.—Water lift.

478. Briailles, G. C. de.—17 Dec. 1908; UK. 22,434, 22 Oct. 1908. Sulphuric acid and sulphur are obtained by electrolysis of sulphurous anhydride in aqueous sulphuric acid. 1.

479. Wagner, F.—17 Dec. 1908; UK. 19,898, 22 Sept. 1908. Valves, operated through pressure on the valve body or on an equilibrium piston, are prevented from vibrating by equalizing the pressure; applicable to steam regulators for locomotives. 4.

480. Shearer, W.—17 Dec. 1908; UK. 25,245, 14 Nov. 1907. Carburetting apparatus consisting of air holder, air meter coupled to the petrol regulator and air drier placed before the carburettor. 1.

481. Shearer, W.—17 Dec. 1908; UK. 26,958, 6 Dec. 1907. Carburetting apparatus, construction of petrol delivery appliance having cups adjustable on revolving arms. 1.

482. Albrecht, C. A., & Muehleisen, C.—26 Nov. 1909; UK. 10,704, 16 May 1908. Linotype machine with details of assembling and other parts arranged to reduce the height of the magazine in the Mergenthaler type. 9.

483. Weedon, J. F.—19 May 1909; UK. 15,958, 27 July 1908. Railway sleepers of the pot type or pot ended type made of reinforced concrete. 1.

484. Preston, W. R., & Peckitt, R. G.—30 April 1909; UK. 17,444, 30 July 1907. Railway trucks for carrying timber, etc., construction of folding stanchions. 3.

485. Devinne, C. C.—Furniture.

486. Sayanna, L.—Archcenters.

487. Sutton, W. J. E.—2 Jan. 1909. Jute and similar fibrous packs for wool, cotton are dressed with a composition of glue, flour, soap, alum, oil and water.

488. Allen, R.—9 Jan. 1909; UK. 16,591, 19 July 1907. Piston packing with expanding metallic rings. 3.

489. Heiden, C. V.—19 May 1909. Pianoforte construction details for overstrung instruments. 3.

490. Green, A. G.—9 Jan. 1909; UK. 16,189, 15 July 1907. Dyeing fabrics and fibres with aniline black by padding or printing with aniline mixtures and oxidising mainly by air.

491. Winsor, D. W.—Spinning.

492. DeDion Bouton (1907), Ld.—30 Aug. 1909; UK. 19,674, 18 Sept. 1908. Centrifugal fan for cooling radiators in motor cars. 1.

493. Zabriskie, A.—26 Feb. 1909; UK. 21,713, 1 Oct. 1908. Fibre scutching machine of the wheel and block type with transfer chain feed. 3.

494. Sheppard, L. E.—Medicine.

495. Flory, T. W., & Flory, Mrs. L. G.—12 Jan. 1909; UK. 13,447, 11 June 1907. Adding machine for simple or compound quantities with ratchet and pawl mechanism. 1.

496. Sandor, H. A.—12 Jan. 1909; UK. 1029, 30 Sept. 1908. Spring driving mechanism for clocks, musical boxes, etc., with alternately acting springs. 2.

497. Buchanan, G. A.—26 June 1909. Table, chair, almirah, bedstead, etc., legs are furnished with a trough for holding liquids to trap vermin. 1.

498. Scherl, R.—12 June 1909; UK. 21,843, 15 Oct. 1908. Gyrostatic apparatus for rendering stable vehicles, aerial machines, submarines, etc., having the gyroscopes mounted in unstable or indifferent equilibrium. 2.

499. Windsor, A.—Locks.

500. Beaurain, H. J.—9 July 1909; UK. 20,767, 2 Oct. 1908. Glass tiles with special backing to secure adhesion on walls.

501. Smith, H. E.—22 Jan. 1909. Carburettor of surface evaporation type with chambers of annular section and globular or other form connected by necks. 1.

502. Fawns, Miss K. E., & Kermode, Mrs. G.—11 Feb. 1909; UK. 19,500, 30 Aug. 1907. Coin freed apparatus for vending stamps, tickets, etc. 3.

503. Parker, T.—15 Feb. 1909. Coal, etc., in a finely divided state is distilled in narrow vertical retorts until illuminating gas ceases to be evolved. Improvements on No. 298 of 1907. 1.

504. Westinghouse Metal Filament Lamp Co.—26 June 1909; UK. 9020, 14 April 1906. Electric incandescent lamp filaments of molybdenum or tungsten are made from mixtures of the oxides with casein or other organic material which is made into threads, carbonized and highly heated.

505. Monotype Machine (Colonial Patents) Syndicate.—25 Aug. 1909; UK. 21,268, 8 Oct. 1908. Linotype and other composing machines for setting up copies in lines justified to different measure or in characters of different setwise dimensions. 4.

506. Johnson, W. H.—14 July 1909; UK. 13,624, 27 June 1908. Wire fabric with longitudinal wires, connected by wires twisted round them, used for reinforcing or bonding brickwork. 1.

507. Hooker, W.—14 Jan. 1909. Carburettor of the gasholder type with absorbent material hung inside so as to dip into a tray supplied with oil by a bird fountain. 1.

508. Anne of Lowenstein Wersthein.—Ship's bunks.

509. Thomson, W. A.—26 June 1909. Rain gauge with tilting arrangements and wind vanes. 1.

510. Bennett, G. A., & Smith, J. A.—27 Feb. 1909; UK. 27,259, 10 Dec. 1907. Wheel tyres with inner pneumatic tube and outer tube packed with sand. 1.

511. Roy, C. M.—Plough.

512. Koller, J. C.—14 Dec. 1909. Metals are extracted from ores by a modified chlorination process. 2.

513. Mills Equipment Co.—31 Aug. 1909; UK. 24,228, 11 Nov. 1908. Cartridge belts or bandoliers of two ply material with sheaths to hold C fastenings of the cartridge carriers. 1.

514. Rostron, J., & Worman, T.—7 Sept. 1909; UK. 26,322, 21 Nov. 1906. Loom—automatic reshuttling mechanism, improvements on No. 66 of 1906. 2.

515. Lawrence, S. S.—26 May 1909; UK. 10,179, 11 May 1908. Spectacles, eyeglasses, etc., with bridge, wing and other attachments made without screws. 1.

516. Lines, A., & Kirke, E. St. George.—7 June 1909. Railway signal wire compensator of liquid dashpot construction. 1.

517. Roy, C. M.—Pumps.

518. Wilby. W.—6 Oct. 1909. Railway tablet, etc., exchange apparatus. 1.

519. National Wire Bound Box Co.—30 Aug. 1909. Box blank making machinery for stapling or stitching together sheets, cleats, and wire binding, which blanks form four sides of a wire-bound shipping case. 6.

520. Wynberg, A.—22 July 1909. Sugarcane waste is treated by grinding and extraction with solvents for the recovery of wax or fat-like bodies and sugar. These bodies may be refined and otherwise treated.

521. Fowler, G. J., & O'Meara, E. J.—21 Jan. 1909; UK. 12,877, 16 June 1908. Lac is treated for separation of shellac, wax and lac dye by extraction processes with hot or cold solvents such as methylated spirits, acetone, etc.

522. Edwards, G. T.—Gas manufacture.

523. Karim Ilahi & Nabi Buksh.—25 Jan. 1909. Padlock with a straight bar sliding in horns in the case and secured by a vertical slider which is worked and locked by timber mechanism. 1.

524. Lindsley, M. M.—2 April 1909. Brake truss for railway and other vehicles made of a weldless bar with trunnion end bolted or rivetted on. 2.

525. Coleman, E. W.—27 Sept. 1909; UK. 21,942, 1 Jan. 1908. Mechanism for converting reciprocating into rotary motion. 1.

526. Caldwell, W. H.—3 Feb. 1909; UK. 1689, 24 Jan. 1908. Photographic sensitive surfaces containing hydrazine or hydroxylamine, or their compounds.

527. Killon, E. B.—26 June 1909; UK. 9503, 24 April 1907. Wheels with wooden felloes shod with channel iron in one or more parts with inturned flanges. 2.

528. Mills Equipment Co.—31 Aug. 1909; UK. 7820, 8 April 1908. Cartridge belts or carriers made of specially woven fabric having integral pockets and flaps. 2.

529. Bachrich, L.—7 Aug. 1909; UK. 23,361, 2 Nov. 1908. Hydraulic control or operation of valves, detents, switches, etc. 1.

530. Barr, A. D.—27 Aug. 1909. Ferments and enzymes.

531. Richards, C.—Water-wheels.

532. Alisbaik Bidree.—21 July 1909. Warping machine as described in No. 429 of 1904 with improvement in the leasing motion. 1.

533. Beedle, W.—26 July 1909; UK. 22,506, 11 Oct. 1906. Screw propeller with special vane construction for use in air or water. 1.

534. Sykes, W. R., & Cooke, C. J.—15 April 1909; UK. 24,030, 10 Nov. 1908. Railway electric block signalling system and instruments arranged for safeguarding the issue of tokens. 4.

535. Merry, H. E. D.—24 April 1909. Rock drill feed screw with ratchet feed handle on front end. 1.

536. Perman, W. F.—30 June 1909. Joint for chimneys and like on corrugated iron roofs. 1.

537. La Cour, J. L., & Allmänna Svenska Elektriska Aktiebolaget. 8 April 1909; UK. 24,581, 16 Nov. 1908. Electric polyphase commutator machines with windings, etc., arranged for regulation. 1.

538. British Fixator, Ld.—22 Jan. 1909. Preventing accidental movement of rotary parts by use of a gripping helix, applicable to locking nuts, steering heads of motor cars, etc. 1.

539. Hood, J. J., & Salamon, A. G.—29 Jan. 1909; UK. 16,617, 6 Aug. 1908. Mineral oils are treated with alumina or magnesia, either precipitated or in the form of bauxite or magnesite, by filtration to remove colour.

540. New Ignition Syndicate, & Sandy, W. J. L.—26 June 1909; UK. 10,520, 14 May 1908. Electrolyte for single liquid batteries containing chromic acid, acid sulphate of an alkali, and hydrochloric acid.

541. Lawrence, S. S., & Short, H. W.—26 May 1909; UK. 25,014, 23 Nov. 1908. Megaphone made of flexible material so as to be collapsible. 1.

542. Daniel, W. B., & Calcutta Co., Ld.—16 Feb. 1909. Carburettor as described in No. 507 of 1908 with absorbent material removed from the air bell and placed around the air inlet. 1.

543. Begg, J.—24 July 1909. Tea feeding spreading device for use with withering machines. Improvements on No. 444 of 1900. 1.

544. Goodall, P. J.—4 Mar. 1909. Girth for riding saddles. 1.

545. Watson, W. J., Campbell, C., & Hamilton, A. H. C.—16 Aug. 1909. Railway vehicle brakes applied by buffer when the train bunches up on stopping. 2.

546. Imperial Writing Machine Co.—7 Sept. 1909; UK. 25,821, 30 Nov. 1908. Typewriter paper holding and protecting devices and tabulator stops. 3.

547. Wolf, L.—24 July 1909. Liquefied gas for heating and illuminating purposes.

548. Hoffmann, S.—Arms.

549. Reichel, L. T. & E. F.—6 April 1909. Fire alarm with thermopile, galvanometer and relay alarm circuit. 1.

550. Stephenson, J. F.—26 June 1909. Spring mattresses with tightening devices. 1.

551. Orenstein & Koppel.—3 Aug. 1909. Tipping trucks with special form of rocker and supports. 1.

1909.

1. Westinghouse Brake Co.—7 Aug. 1909; UK. 20,857, 19 Sept. 1907. Steam ejector apparatus with several nozzles, reducing valve, and driver's brake handle connections for railway vacuum brakes. 1.

2. Brandt, P.—7 Aug. 1909; UK. 20,728, 1 Oct. 1908. Hydraulic and pneumatic apparatus with multiple rams, alarms, and special packing. 6.

3. Star Seal Co.—26 May 1909; UK. 27,222, 15 Dec. 1908. Bottle sealing machine for applying internally expanded seals or cap stoppers. Reference is made to No. 263 of 1908. 3.

4. Webb, G.—30 June 1909; UK. 27,354, 19 Dec. 1907. Wheels for pneumatic tyres with detachable parts of rims and fastenings. 1.

5. Hughes, P. R.—7 Aug. 1909. Lift or platform hoist of portable form for use in stacking bales, etc. 1.

6. Churchill-Shann, M.—1 March 1909. Electric distribution five wire system combined with three wire traction system; construction of tramways with longitudinal sleepers and diagonal stayed trolley wire suspension. 3.

7. Overman, M. C.—11 Feb. 1909; UK. 26,838, 10 Dec. 1908. Spring wheels with radial spokes containing spiral springs. 1.

8. Kartar Singh.—Disinfecting.

9. Manganese Steel Rail Co.—14 May 1909. Manganese steel rails and other shapes are made from ingots by rolling and working under specified temperature conditions.

10. Hill, A. J., & Mann, F. C. D.—6 April 1909; UK. 4550, 28 Feb. 1908. Electric high tension lighters for gas. 1.

11. Ghadiali, D. P. F.—9 Aug. 1909; UK. 16,493, 22 Aug. 1908. Pen and electric devices giving high tension sparks which perforate and char the paper, giving indelible writing. 1.

12. Oliver-Roche Co.—1 Sept. 1909; UK. 27,270, 15 Dec. 1908. Water purification by sedimentation, upward filtration, electrolysis and chemical treatment. 5.

13. Oliver-Roche Co.—1 Sept. 1909; UK. 27,271, 15 Dec. 1908. Filtering water by upward filtration through a floating filter in sedimentation tanks. 2.

14. Hydrocarbon Converter Co.—19 Jan. 1910; UK. 24,109, 10 Nov. 1908. Oil gas production by porous or other material heated by products from internal combustion engines. 1.

15. English, J. C.—7 Aug. 1909; UK. 20,000, 23 Sept. 1908. Amplifying horns, for talking machines, of rectangular section and sounding board attachments. 2.

16. Windsor, A.—4 March 1909; UK. 21,487, 27 Sept. 1907. Lock or fastening with catch and tumbler for doors, specially double doors. 1.

17. Ebrahimjee, M.—17 Aug. 1909. Cigarettes or *biris* made of leaf filled with tobacco are covered with cigarette paper.

18. Ebrahimjee, M.—Boxes.

19. Skelton, A. W. C.—Brushes.

20. Dennett, R. J.—9 Aug. 1909. Railway signalling voucher block electric instruments, with cylindrical vouchers and paper delivery. 7.

21. Pearce, E.—18 Feb. 1909; UK. 18,051, 27 Aug. 1908. Toy with rings revolved by motion over a helically twisted wire stem. 1.

22. Sandoz-Sutter, J.—22 Feb. 1909; UK. 24,346, 12 Nov. 1908. Rail cleaning device for tramcars. 1.

23. Baker, F., & Jacobs, L.—Sewing machine.

24. de Peyrecave, L. F. M., Thomas Evans & Son (Poplar), Ld., & Lamplough, F.—7 Aug. 1909; UK. 24,286, 2 Nov. 1907. Rotary engines, etc., of the annular chamber type. 1.

25. Webb, G.—30 June 1909; UK. 8610, 18 April 1908. Wheels for pneumatic tyres with detachable parts of rims and fastenings. Improvements on No. 4 of 1909. 1.

26. White, W.—19 May 1909; UK. 14,840, 13 July 1908. Locomotive and other boilers are washed and filled with apparatus which utilises the heat in the blown out steam and water. 3.

27. Mitchell, R.—31 May 1910; UK. 22,427, 11 Oct. 1907. Sugarcane mills with special forms of roll surfaces. 2.

28. Blake, H. T.—7 Aug. 1909; UK. 24,637, 7 Nov. 1907. Fire extinguisher, garden engine, etc., with filling plug for water and compressed air at the side, and with discharge pipe reaching below the bottom and acting as a stay. 1.

29. Ross, J. F.—1 Sept. 1909; UK. 16,913, 11 Aug. 1908. Can with tightly fitting cover, the contact surfaces being burnished, and with flexible bottom. 2.

30. Terry, A. E.—7 Aug. 1909; UK. 1184, 18 Jan. 1908. Screw nut with spring locking device. 1.

31. Foden, W., & The United Kingdom Self-adjusting Anti-friction Metallic Packing Syndicate, Ld.—4 March 1909; UK. 20,952, 5 Oct. 1908. Metallic packing for stuffing boxes for use with superheated steam. 2.

32. Gare, T.—4 March 1909; UK. 12,454, 29 May 1906. India-rubber goods are made or repaired by heating old material above the vulcanisation point to fusion under pressure in moulds.

33. Hay, Sir L. J. E.—6 Feb. 1909. Indigo manufacture, separated layers of plant are treated in closed tanks with circulation and heating of the liquid, which may be neutralised or acidified, and also passed over charcoal. 2.

34. Siemens Bros. & Co.—26 Feb. 1909; UK. 10,394, 13 May 1908. Railway signals operated by electro-motors with electro-magnetic disengaging device. 1.

35. Germeau, E. N. J., & Bouton, A. N. G.—13 Aug. 1909; UK. 9496, 1 May 1908. Boiler seatings with heating chambers for the upper portions of the boiler. 1.

36 Declozets, L. P.—23 April 1909. Ground nut husking machine with revolving beaters inside cylindrical grid. 2.

37. Remfry, H. G.—24 Aug. 1909. Hot air engines with bottom of displacer cylinder conical, ribbed, etc., to facilitate heating and plunger of corresponding shape. 1.

38. Frood, A. D.—Cleaning and polishing composition.

39. Raitt, H. G. B.—15 April 1909. Destructor for refuse, etc., consisting of an open grate surface with central flue and cover. 2.

40. Allen, H. W.—Aëronautics.

41. Kilburn, B. E. D.—7 Aug. 1909; UK. 10,510, 6 May 1907. Explosives containing tannin bearing materials and nitrate or chlorate salts.

42. Monotype Machine (Colonial Patents) Syndicate, Ld.—31 Aug. 1909; UK. 22,374, 21 Oct. 1908. Automatic justifying mechanism for pattern controlled composing machines. 4.

43. Roy, N. K.—10 March 1909. Bottle opener of box form. 1.

44. Hamilton, R. S.—31 Aug. 1909. Motor cultivator with anchored rope for tea, etc. 1.

45. Konomax Rock Drill Syndicate, Ld.—25 Aug. 1909; 15,121, 1 July 1907. Rock drills of percussive type with automatic feed and other details, water supply to bit, etc. 2.

46. Skelton, A. W. C.—Railway signalling.

47. DeDion Bouton (1907), Ld.—30 Aug. 1909. Valve with float instead of spring, applicable to engine carburettors, etc. 1.

48. Hale, F. M.—Grenade.

49. Glenister, J. E. & G. W.—13 March 1909; UK. 811, 13 Jan. 1908. Electric conductors insulated with twisted paper strip in place of cotton.

50. Ramchand.—Spinning.

51 Ravuttar, V. M. G. & V. M. S.—14 Oct. 1909. Looms for making reed grass matting. 2.

52. Walton, F.—9 March 1909; UK. 25,747, 28 Nov. 1908. Road vehicle suspension arrangements consisting of tubular air springs with reservoir supply and relief connections. 1.

53. Dietz, B. R.—9 March 1909; UK. 8575, 12 April 1907. Dummy mounted to rotate on a spring stalk, like a punching ball, for military practice. 1.

54. Dietz, B. R.—9 March 1909; UK. 9350, 22 April 1907. Signalling device, specially for military use, of disc or other form, collapsible with surfaces of different visibility and lighting arrangements. 1.

55. Pittler Universal Rotary Machine Syndicate, Ld.—7 Aug. 1909; UK. 5081, 2 March 1907. Rotary engines of the fixed abutment type with outwardly sliding vanes. 3.

56. Greenwood, C. V.—12 March 1909; UK. 569, 9 Jan. 1908. Gun tragasol, as described in No. 300 of 1906 and No. 356 of 1895 with additions of formic or other organic acids and of other bodies.

57. Maung Thein Maung.—31 May 1909. Camphor still with water jacketed head and return of condensed water to still. 3.

58. Barlow, E. C. & E. E.—13 March 1909; UK. 16,899, 23 July 1907. Cans or sheet metal boxes with lever lids and continuous sheet of metal under the lid, weakened for removal. 1.

59. Goldsmith, B. B.—4 June 1909. Compositions of albumenoids, betanapthol and formaldehyde or other similar bodies which are plastic when heated and may be used as substitutes for rubber, celluloid, etc.

60. Mardon, J. W., & Hudson, J. G.—4 June 1909. Railway crossing semaphore and audible signals worked by treadle gear. 2.

61. Cosserat, W. A. P.—7 Sept. 1909. Metal bending machine for making lattice bars for railway signal or other posts. 4.

62. Iyengar, P. T. S.—Furniture.

63. Servai, A. S.—Water-lift.

64. Leader, C. E., & Elmes, C. H.—Railway signalling.

65. Wright, T. W.—20 Sept. 1909; UK. 16,289, 16 July 1907. Album for disc records of talking machines.

66. Spenle, J.—7 Sept. 1909. Calendering machine with four rollers for glazing or finishing both sides of fabric. 1.

67. Acme Bottle Manufacturing Co., Ld.—25 Aug. 1909; UK. 1581, 23 Jan. 1908. Glass bottle, etc., blowing machinery. 5.

68. Badische Anilin & Soda Fabrik.—21 April 1909; UK. 14,337, 6 July 1908. Bowking dyed or printed material with a vat colouring matter in a bath containing an easily reducible organic compound.

69. Barker, J. C.—25 Aug. 1909; UK. 2736, 7 Feb. 1908. Tyres of rubber containing triangular chambers, with connections and special closure, and filled with air. 1.

70. International Typewriter Co.—30 Nov. 1909; UK. 2489, 2 Feb. 1909. Typewriter with swinging paper holder. 10.

71. Aktieselskabet Aae's Laas Verdenspatent.—25 Aug. 1909. Lock with annular tumblers. 2.

72. Fessenden, R. A.—26 March 1909; UK. 63, 1 Jan. 1909. Wireless telegraphy with horizontal component of receiving and transmitting antennæ in direction of propagation. 5.

73. Marshal, D.—6 Aug. 1909; UK. 26,283, 28 Nov. 1907. Washer lock for nuts, bolts, etc. 1.

74. Lazarus, N.—15 Sept. 1909. Eye sight testing apparatus with adjustable cord and two discs carrying glasses. 1.

75. Waller, C. A.—24 May 1910. Paddy and grain drying apparatus with conveyor and forced draught lead for grain through tubular heating apparatus, and distribution through air for cooling. 3.

76. Waller, C. A.—16 June 1910; UK. 20,227, 3 Sept. 1909. Paddy boiler and soaking tank. 1.

77. Sheffield, G. H., & Twinberrow, J. D.—25 Aug. 1909. Railway vehicle axle guards duplicated to support axle box centrally or on either side of the springs. 2.

78. Valveless, Ld.—25 Aug. 1909; UK. 1598, 22 Jan. 1909. Internal combustion engines with cylinders side by side, geared crank shafts and common combustion and crank chambers, details of construction, air and fuel feed, counterbalancing and lubrication. 1.

79. Hope, J.—14 Dec. 1909; UK. 7158, 1 April 1908. Spinning and doubling frames with two speed or accelerating gear which increases the speed after the cop is formed. 2.

80. Boyd, J., Phillips, D., & James Scott & Sons, Ld.—18 March 1909; UK. 15,447, 4 July 1907. Spinning, etc., driving band guiding and tensioning arrangements. Reference is made to No. 283 of 1905. 2.

81. Societe Serret et Cie.—18 March 1909; UK. 27,480, 12 Dec. 1907. Carburettor with bell, pump, control of air supply by bell, and wick supply for oil. 2.

82. Uptegraff, A. G.—18 March 1909. Overshoes for horses and other hoofed animals. 1.

83. Dennett, R. J.—17 Sept. 1909. Railway signal wire compensator with geared counterbalance levers which are locked when wire is pulled. 2.

84. Ozonair, Ld., & Joseph, E. L.—26 March 1909; UK. 27,883, 22 Dec. 1909. Ventilation of buildings on a closed cycle circulation system with ozonising, purifying, etc., arrangements. 1.

85. Ozonair, Ld., & Joseph, E. L.—26 March 1909; UK. 27,226, 15 Dec. 1908. Water is sterilized by ozone, etc., in a scrubbing tower appliance. 1.

86. Arbuckle, A. J., & Osborne, A.—25 Aug. 1909; UK. 27,767, 21 Dec. 1908. Filtering and settling apparatus for ore slimes, etc., with continuous action. 3.

87. Price, A. B.—17 Sept. 1909. Centering bars for constructing floors, etc., and suspenders for encasing beams. 1.

88. Thapur, J. R.—Rat trap.

89. Tice, W.—21 April 1909. Flushing arrangements with syphon discharge applicable to latrines such as described in No. 394 of 1906. 1.

90. Jost, C.—30 Oct. 1909; UK. 2937, 6 Feb. 1909. Fan driven by heat engine with coiled tube water jacket, all carried by standard which serves also as a water cooling tank. 1.

91. Jost, C.—30 Oct. 1909; UK. 2936, 6 Feb. 1909. Air-cooling devices of porous earthenware with fan and heat engine, etc. 1.

92. Ghosh, C. C.—Spinning.

93. Keats, S., & Gimson & Co. (Leicester), Ld.—30 June 1909; UK. 28,089, 20 Dec. 1907. Boot and shoe lasting machines. 2.

94. Air Blast Gin Co.—24 March 1909. Cotton saw gins of multiple type with air blast. 3.

95. Pollen, A. H., Holbourns, J. G., & Fletcher, W.—16 Dec. 1909; UK. 6027, 18 March 1908. Linotype machines with pivoted magazines for quick changing. 4.

96. T. Coulthard & Co.—25 Aug. 1909; UK. 1387, 20 Jan. 1909. Thread guides of wire for spinning, doubling and twisting machines. 1.

97. Lazarus, N.—Spectacles.

98. Marks, J.—1 Dec. 1909; UK. 26,625, 8 Dec. 1908. Rotary engine of Roots blower type with three revolving parts. 5.

99. Mayson, T. W., & Edgar, J.—1 Dec. 1909. Life guards or catchers for tram-cars, motor cars, etc. 1.

100. Debidin & Bhagwandin.—Husking mill.

101. Debidin & Bhagwandin.—Dhenki.

102. Sainte-Croix, X. C. A. Du H. de.—1 Dec. 1909.—Safety catches for lifts, etc. 8.

103. Pearson, G. A.—9 July 1909. Pipe couplings for air and vacuum brake pipes. 1.

104. Hodson, F.—9 Feb. 1910. Sawing machine of portable type for forest use. 1.

105. Jones, T. G.—14 Sept. 1909. Chain pump with driving wheel notched to engage and drive the discs. 1.

106. Jones, T. F. G., & Abdul Rahim Khan.—14 Sept. 1909. Evaporator or concentrator for cane juice, etc., with zigzag flow surface and steam, etc., heating. 1.

63. **Servai, A. S.**—Water-lift.

64. **Leader, C. E., & Elmes, C. H.**—Railway signalling.

65. **Wright, T. W.**—20 Sept. 1909; UK. 16,289, 16 July 1907. Album for disc records of talking machines.

66. **Spenle, J.**—7 Sept. 1909. Calendering machine with four rollers for glazing or finishing both sides of fabric. 1.

67. **Acme Bottle Manufacturing Co., Ld.**—25 Aug. 1909; UK. 1581, 23 Jan. 1908. Glass bottle, etc., blowing machinery. 5.

68. **Badische Anilin & Soda Fabrik.**—21 April 1909; UK. 14,337, 6 July 1908. Bowking dyed or printed material with a vat colouring matter in a bath containing an easily reducible organic compound.

69. **Barker, J. C.**—25 Aug. 1909; UK. 2736, 7 Feb. 1908. Tyres of rubber containing triangular chambers, with connections and special closure, and filled with air. 1.

70. **International Typewriter Co.**—30 Nov. 1909; UK. 2489, 2 Feb. 1909. Typewriter with swinging paper holder. 10.

71. **Aktieselskabet Aae's Laas Verdenspatent.**—25 Aug. 1909. Lock with annular tumblers. 2.

72. **Fessenden, R. A.**—26 March 1909; UK. 63, 1 Jan. 1909. Wireless telegraphy with horizontal component of receiving and transmitting antennæ in direction of propagation. 5.

73. **Marshal, D.**—6 Aug. 1909; UK. 26,283, 28 Nov. 1907. Washer lock for nuts, bolts, etc. 1.

74. **Lazarus, N.**—15 Sept. 1909. Eye sight testing apparatus with adjustable cord and two discs carrying glasses. 1.

75. **Waller, C. A.**—24 May 1910. Paddy and grain drying apparatus with conveyor and forced draught lead for grain through tubular heating apparatus, and distribution through air for cooling. 3.

76. **Waller, C. A.**—16 June 1910; UK. 20,227, 3 Sept. 1909. Paddy boiler and soaking tank. 1.

77. **Sheffield, G. H., & Twinberrow, J. D.**—25 Aug. 1909. Railway vehicle axle guards duplicated to support axle box centrally or on either side of the springs. 2.

78. **Valveless, Ld.**—25 Aug. 1909; UK. 1598, 22 Jan. 1909. Internal combustion engines with cylinders side by side, geared crank shafts and common combustion and crank chambers, details of construction, air and fuel feed, counterbalancing and lubrication. 1.

79. **Hope, J.**—14 Dec. 1909; UK. 7158, 1 April 1908. Spinning and doubling frames with two speed or accelerating gear which increases the speed after the cop is formed. 2.

80. **Boyd, J., Phillips, D., & James Scott & Sons, Ld.**—18 March 1909; UK. 15,447, 4 July 1907. Spinning, etc., driving band guiding and tensioning arrangements. Reference is made to No. 283 of 1905. 2.

81. **Societe Serret et Cie.**—18 March 1909; UK. 27,480, 12 Dec. 1907. Carburettor with bell, pump, control of air supply by bell, and wick supply for oil. 2.

82. **Uptegraff, A. G.**—18 March 1909. Overshoes for horses and other hoofed animals. 1.

83. **Dennett, R. J.**—17 Sept. 1909. Railway signal wire compensator with geared counterbalance levers which are locked when wire is pulled. 2.

127. Bolitho, J. B.—21 April 1909; UK. 21,463, 27 Sept. 1907. Target practice and aim recording apparatus without projectiles. 3.

128. New Salt Syndicate, Ld., & Royston, E. R.—19 May 1909; UK. 12,110, 25 May 1907. Furnace of reverberatory type for fusing and refining salt. 3.

129. Wright, E.—29 April 1909; UK. 809, 13 Jan. 1908. Decorticating machine for fibrous material in which both ends are first combed and then one end is freed so that the leaf, etc., passes through the machine. 2.

130. Linotype & Machinery, Ld.—14 Oct. 1909; UK. 18,579, 16 Aug. 1907. Type setting machines with quick change arrangements for magazines. 14.

131. Brettell, J. O., & McKenzie & Holland, Ld.—26 June 1909; UK. 13,277, 22 June 1908. Railway point and signal levers with mechanical interlocking gear. 2.

132. Yarrow, M.—31 Aug. 1909; UK. 13,087, 6 June 1907. Earthenware pipe-moulding machine. 5.

133. Durgadas Gupta.—4 Oct 1909. Comb with double teeth and reservoir for holding and supplying oil, etc. 1.

134. Edwards, G. T.—14 Sept. 1909. Carburetting apparatus with automatic control by gas holder, air supply holder raised by clockwork, petrol feed and mixer. 1.

135. Crosse, A. F.—24 April 1909; UK. 269, 5 Jan. 1909. Gold, silver, etc., wet extraction process with continuous circulation of solvent and ore or slimes. 2.

136. Bana, R. H.—27 Aug. 1909. Perfumed card manufacture.

137. Heidenstam, W. A. G. von., & Friedemann, K. L. F.—22 April 1909; UK. 2534, 2 Feb. 1909. Wood preservation process by impregnation with solutions of phenol compounds of alkaline earths such as cresol and calcium, followed by treatment with carbonic acid.

138. Koszegi, K., & Szechenyi, E.—22 April 1909; UK. 2404, 1 Feb. 1909. Cultivating machine with one or more thin discs, revolving at a high speed and carrying hoe or stirring blades. 1.

139. Friderichsen, N. S.—24 April 1909; UK. 7330, 2 April 1908. Lead seal casting machine. 3.

140. British Westinghouse Electric & Manufacturing Co.—31 Aug. 1909; UK. 7941, 9 April 1908. Electric braking arrangements especially for electrically propelled vehicles in which brake current is supplied by the motors. 1.

141. Barton, G V.—24 April 1909; UK. 4465, 23 Feb. 1909. Lead oxides are produced by subjecting molten lead to air and steam under agitation, and heating the fume, the products being used in the preparation of white and red leads, etc. 2.

142. Newton, P. A.—15 Sept. 1909; UK. 28,536, 28 Dec. 1907. Tobacco waste is treated by steam to recover nicotine and to leave the residue in a suitable state for the preparation of a fertilizer. 1.

143. Suchostawer, D.—24 April 1909; UK. 5402, 6 March 1907. Electric traction on the surface contact system with electromagnetically operated switches. 2.

144. Gerrie, H. R., & Pender, W.—11 Sept. 1909. Tobacco leaf stemming or stripping machine. 2.

145. Devereux, F., & Ramchandra Rau, D. G.—Water-lift.

146. Watson, W. M.—3 Jan. 1910. Sanding appliances for locomotives, etc., with sand distributing wheel driven by steam jet wheel. 1.

147. Praed, G. A.—14 Sept. 1909. Sighting appliance with two sets of sights connected by a parallel motion so as to be usable by two persons; the the appliance may be collapsible or attached to a rifle, etc. 1.

148. Taylors, S.—14 Oct. 1909. Double adjustable bush for roving machine, pressing rollers, etc. 1.

149. Hira Lal Bansal.—Lime.

150. Roubinowitch, A.—1 Sept. 1909; UK. 1538, 21 Jan. 1909. Medical and surgical operating tables. 3.

151. Aktiebolaget Elektrometall.—1 Sept. 1909. Electric furnace for smelting ores arranged for the electrodes to contact with the charge where it does not touch the brickwork; charging arrangements. 2.

152. Aktiebolaget Elektrometall.—1 Sept. 1909. Electric furnace similar to No. 151 of 1909. 1.

153. Aktiebolaget Elektrometall.—1 Sept. 1909. Electric furnaces arranged for multiphase currents for smelting iron and other ores. 2.

154. Santra, B. N.—7 Jan. 1910. Baling press operated by geared levers, drawn together by rope gearing and rack to ensure parallel motion of follower. 1.

155. Hamilton, C. H.—12 May 1909; UK. 5001, 1 Mar. 1909. Grinding mills of the tube type with the container obliquely and adjustably mounted on its axis. 1.

156. Farbridge, J. R.—11 Sept. 1909; UK. 7403, 3 April 1908. Air heating furnace of tubular type. 3.

157. Cook, J. W.—11 Sept. 1909; UK. 11,000, 11 May 1907. Weft replenishing mechanism for looms. 2.

158. Haradhan Mondal.—21 Dec. 1909. Baling press operated by geared levers, drawn together by rope gearing and rack to ensure parallel motion of follower. 1.

159. Leyenthal, W.—27 Aug. 1909. Caoutchouc collecting appliance with geared rollers to be used on the trunk. 1.

160. Sweeney, M. L., & Treat, C. H.—6 Aug. 1909. Code for telegraphic use. 2.

161. Robertson, J.—30 Oct. 1909. Safety guard for circular saws. 1.

162. Fateh Mohamed Deura & Co.—25 May 1909. Polo sticks with reinforced head attachment. 1.

163. Lissenburg, H.—Range-finders.

164. Messenger, J. H.—6 May 1909; UK. 7124, 31st March 1908. Pneumatic tyres with studs, projections, ridges, etc., between the inner and outer tube and also non-conducting packing. 1.

165. Whiting, J. E.—Sluice.

166. Kuhn, E. W.—1 Sept. 1909; UK. 4622, 29 Feb. 1908. Fermented beverages are produced by fermentation in closed vessels completely filled with the liquid and under electric influences. 1.

167. Knox, R.—19 May 1909. Ventilation inlet box for drain pipes. 1.

168. McGlashan, J.—18 Feb. 1910. Sugar defecation and refining processes using lime and carbonic acid in the cold and also materials containing tannin. Reference is made to No. 217 of 1902.

169. Haripada Dass.—Perpetual motion.

170. Kirkegaard, G.—14 Dec. 1909; UK. 5920, 17 March 1908. Cap stopper with cork, etc., packing to fit mouth of bottle and flanges or tongues for securing and opening. 1.

171. Kirkegaard, G.—1 Sept. 1909. Cap stoppering machine with arrangements for compensating for various heights of bottles. 1.

172. Kirkegaard, G.—1 Sept. 1909. Cap stoppering machine with automatic feed for caps. 1.

173. Krishnan, P.—Perpetual motion.

174. Jackson, W.—26 May 1909; UK. 6007, 12 March 1909. Tea, etc., drying machines, construction of feeding belt, etc. Reference is made to No. 178 of 1906. 1.

175. Wajih, S. M.—21 June 1909. Chain pump with special construction of driving and chain wheels, double buckets, frame and discharge. 1.

176. Joseph, E. L., & Ozonair, Ld.—3 June 1909. Ozonized air is used in tea manufacture. A special ozonizer is described. 2.

177. Smith, W.—27 August 1909. Reels and reeling machine for silk, cotton, etc. 1.

178. Henrich, J. G.—28 May 1909; UK. 26,853, 4 Dec. 1907. Valved stoppers for siphon and like bottles. 2.

179. Societe Générale D'Etudes et D'Application des Procédés D'Assechement et D'Assainissement Knapen.—22 July 1909; UK. 5222, 7 March 1908. Buildings, posts, etc., are kept dry by air circulation in holes and porous materials, suitably disposed. Perforated bricks of various forms are described. 1.

180. Parry, A.—6 Dec. 1909; UK. 6,058, 13 March 1909. Tea rolling machines with reciprocating container and agitating device, with air circulation. 2.

181. Dowie, C. M.—21 Dec. 1909. Carburetting apparatus with gasholders, controlling supply of air and oil automatically. 2.

182. Schuetz, F. A.—27 May 1909. Oil lamp burner attachment for flat flame with round wick. 1.

183. Linotype & Machinery, Ld.—26 Nov. 1909; UK. 12,911, 4 June 1907. Linotype magazine and mould changing devices, and distributing mechanism. 11.

184. Walcutt, J. M.—19 Jan. 1910; UK. 7065, 24 March 1909. Razor blades packed to prevent contact with cutting edges. 1.

185. Durham, T. C.—19 Jan. 1910; UK. 7066, 24 March 1909. Razor with safety guard arranged to allow stropping. 1.

186. Owen, J. W.—17 Nov. 1909; UK. 16,315, 23 Sept. 1907. Sound records produced by depositing a line of liquid on the blank from which, after the liquid has solidified, first or second matrices with depressed or relief sound lines are made. 1.

187. Ashworth, E.—7 July 1909; UK. 1368, 20 Jan. 1909. Carding engine door lock which does not allow opening until the belt is shifted and the cylinder stopped. 3.

188. Yarrow & Co. (Bolton), Ld., & Yarrow, M.—17 Nov. 1909; UK. 18,446, 15 Aug. 1907. Pipe joints of the spigot and socket type with disposition of flanges to hold packing and grouting. 2.

189. Yarrow and Co. (Bolton), Ld., & Yarrow, M.—17 Nov. 1909; UK. 19,036, 24 Aug. 1907. Pipe joints of the sleeve type with flanges disposed to hold packing and grouting. 2.

190. Angus, A. R.—17 Nov. 1909. Railway signalling on and between trains, and application of brakes by tappets on line with mechanical and electrical operation. 3.

191. Muller, G. A. H.—19 Jan. 1910; UK. 26,353, 28 Nov. 1907. Vermin traps, fly papers, etc., with luminous surfaces. 2.

192. Lindau, A. E.—3 June 1909; UK. 6005, 12 March 1909. Metal bars for reinforced concrete with longitudinal and transverse ribs. 1.

193. Baker, F., & Jacobs, L.—28 May 1909; UK. 18,052, 8 Aug. 1907. Sewing machine with single thread lock stich. 2.

194. Freymuth, W. A.—17 Nov. 1909. Centrifugal separators for treating lac are heated by hot air or gases circulated through a casing. Reference is made to No. 457 of 1908.

195. Lorenzi, E. D., & Magnasco, G.—31 May 1909; UK. 1694, 24 Jan. 1908. Loads on ships are measured by a float and specially graduated steel yard apparatus: also applicable as an ordinary weighing machine. 1.

196. Klabr, A. D.—27 May 1909; UK. 24,504, 14 Nov. 1908. Stencil sheet attachment for fixing in duplicating machines. 1.

197. Webb, J. F., & Tarbutt, P.—27 May 1909; UK. 21,474, 10 Oct. 1908. Filtering apparatus for washing ore slimes with vacuum box alternately inserted and withdrawn from tank. 2.

198. Jackson, H. G.—24 Jan. 1910. Stencil plates with removable letters, etc., for marking goods for transport. 2.

199. Smith, A., & Parks, T.—17 Nov. 1909; UK. 9608, 4 May 1908. Looms of hand or foot power type with spring connections to the picking mechanism to equalize the power used. 3.

200. Walls, Ld.—12 Oct. 1909; UK. 10,558, 15 May 1908. Gas manufacture from solid and liquid fuels in vertical retorts, etc., heated by producer, etc., gas. 1.

201. Kjellberg, O.—17 Nov. 1909; UK. 16,952, 24 July 1907. Electric welding or soldering *in situ* with metal supplied by one electrode. 1.

202. Edeleanu, L.—30 Nov. 1909; UK. 11,140, 22 May 1908. Petroleum and its products are refined by liquid sulphur dioxide.

203. Freymuth, W. A.—17 Nov. 1909. Lac manufacture; the resins and waxes which melt at different temperatures are mixed together, with or without additions, during their solidifying range.

204. Julian, L.—1 Nov. 1909.—Trapped silt chamber and surface box with hinged and locked cover. 2.

205. Marsland, J. J.—25 Aug. 1909. Walls, etc., for buildings are made by filling in concrete, etc., between asbestos slate or other sheets which are held in position and form part of the finished wall, etc. Blocks made in this way are also used, and picture rails, etc., may be incorporated. 3.

206. Hukum Chand.—Bullock gear.

207. Low, E. T.—Drying.

208. Haradhan Mondal.—21 Dec. 1909. Baling press as in No. 158 of 1909 with parallel linkage motion instead of gearing. 1.

Inventions 1909.

209. Martin, P.—10 June 1909; UK. 21,638, [illegible]0 Sept. 1907. Iron and steel is coated with tin, lead and zinc by rubbing the heated surface with sticks of tin and then of lead and zinc, sal ammoniac being used as a flux.

210. Mukerjee, T. N.—1 Dec. 1909. Metal casting gate with handle, tapered ends and concave sides. 1.

211. Beg, M. M. A.—4 Oct. 1909. Water-lift with bullock gear having interrupted tooth gearing to raise and lower without reversing the animals. 2.

212. Wesener, J. A.—19 Jan. 1910; UK. 27,218, 15 Dec. 1908. Flour bleaching by nitroxyl chloride mixed with air, apparatus for regulating and supplying mixture. 4.

213. Maxim, H. P.—30 Sept. 1909; UK. 14,310, 6 July 1908. Firearm silencer in which rotary and whirling motions are given to the escaping gases. 1.

214. Fessman, L., & Hammerle, G.—29 Nov. 1908; UK. 22,232, 10 Nov. 1908. Warping machine with multiple bobbin holders, thread cleaning and guiding arrangements. 2.

215. Gates, G.—23 Aug. 1909; UK. 10,163, 29 April 1909. Sleeper of concrete and fibrous material reinforced with barbed wire, rail plate, and bolted holding clamps. 1.

216 Esping, H. P. W.—Water-lifts.

217. Commercial Products Co.—9 Dec. 1909; UK. 4154, 19 Feb. 1909. Plastic composition of glue and formaldehyde, with or without casein, albumen, aniline, resin, camphor, nitrocellulose, etc.

218. Killen, E. B.—Tyres.

219. Killen, E. B.—26 Feb. 1910; UK. 1059, 16 Jan. 1908. Wheels for artillery with inwardly flanged steel rim, sloping felloes, double-footed spokes and arrow like wedges. 2.

220. Gaultier, P.—14 Dec. 1909.—Surveying [illegible]atus of the plane table type. 1.

221. Lepel, E. V.—1 July 1909; UK. 17,349, 18 Aug. 1908. Electric high frequency oscillating currents for wireless telegraphy, etc. 1.

222. Becher, R. A.—8 Dec. 1909. Lock with keys for railway points and signals, construction of casing, bolts, wards, etc. 1.

223. Servai, A. S.—Water-lift.

224. Chalthan Sahib, K. E.—Lapidaries' machines.

225. Bhargava, R. D.—Type.

226. Milton, S. G.—8 Oct. 1909. Pulling machine specially for well-boring operations. 3.

227. Gill, H. D.—9 Dec. 1909. Oil engine vaporiser projecting into the explosion chamber. 1.

228. Partridge, F. T.—16 Aug. 1909. Carrier combined with brake for wire ropeways. 3.

229. Le Feuvre, F. T.—3 Sept. 1909. Vacuum cylinder piston rod construction and attachment. 2.

230. Beadon, R. A. C.—30 Oct. 1909. Spring bolt for doors, windows, etc. 1.

231. Brihaye, M.—7 Sept. 1909; UK. 10,490, 3 May 1909. Leather for boots, etc., stiffened in parts and left pliable elsewhere by a special local tanning process. 1.

232. Greene, A. E.—26 June 1909; UK. 9508, 21 April 1909. Iron, steel and other metals and alloys are refined in electric or other furnaces by regulating the temperature and the composition and pressure of the gas used for blowing. 1.

233. Ogden, A. R., & Stuart, R. W.—7 July 1909; UK. 5334, 9 March 1908. Ejector apparatus for producing vacuum. 2.

234. Strange, E. H., & Pim, C. A.—7 July 1909; UK. 6630, 19 March 1907. Metal sheet, strip, foil, etc., is made by allowing molten metal to flow on to a cooled revolving surface. 1.

235. Mudaliar, V. G.—Night-soil cart.

236. Dickson, J. T.—Rock drills.

237. Imperial Writing Machine Co.—11 March 1910; UK. 11,264, 12 May 1909. Typewriter with adjustable tabulator stops. 1.

238. Attia, E. M., A. E. & D. E., Bee, E., Chin, T. S., & Kwan, T. S. (Burma Steam Rope Manufacturing Co.).—Ropes.

239. Strang, J. R.—15 Dec. 1909. Well boring tools of unsymmetrical form to avoid use of separate reamer. 1.

240. Palmer, I. E.—3 July 1909; UK. 8774, 13 April 1909. Yarn or thread guides for spinning and twisting machinery. 1.

241. Solano, E. J.—3 July 1909; UK. 11,893, 1 June 1908. Target with moving objects. 2.

242. Connor, J. L.—4 Oct. 1909. Shaving brush with liquid trap in the handle. 1.

243. Trimble, J. A.—12 Oct. 1909; UK. 21,965, 17 Oct. 1908. Billiard cues with removable tips. 1.

244. Holle, A. A.—1 July 1909; UK. 12,869, 16 June 1908. Steam, etc., engines with steam admitted at b[illegible]e working stroke to act by impact. 2.

245. Paterson, W. C.—11 March 1910; UK. 9844, 26 April 1909. Agitator apparatus specially for cyanide treatment of ore pulp. 2.

246. Aktien-Gesellschaft Brown, Boveri & Cie.—14 Dec. 1909; UK. 22,549, 21 Oct. 1908. Spinning machinery with speed regulator for the electric drive. 1.

247. Smith, G. L.—7 July 1909; UK. 6250, 16 March 1909. Fire and temperature alarms of the pneumatic expansion type with electric alarm. 4.

248. Gimson & Co. (Leicester), Ld., & Keats, S.—30 June 1909; UK. 24,465, 5 Nov. 1907. Boot and shoe lasting machines. 1.

249. Pimperker, K. S.—1 March 1910. Loom with all motions worked from pedals. 1.

250. Becher, R. A.—8 Dec. 1909. Railway signal mechanical operating and locking apparatus. 1.

251. Wazir Khan Mistry.—15 March 1910. Threshing appliance consisting of wheels in circular enclosure drawn by bullocks outside. 1.

252. Hawkins, R. S.—14 Jan. 1910. Fastening for railway wagon doors, etc., consisting of chain, staple and special split ring. 4.

253. Hesselman, K. J. E.—1 July 1909; UK. 16,301, 31 July 1908. Internal combustion engines with reversing gear. 1.

254. Leslie, W. F.—1 July 1909; UK. 12,164, 4 June 1908. Grinding mills of the anvil and rotary hammer type, details of feed and mill casing, air circulation and screens. 2.

255. Marconi's Wireless Telegraph Co.—14 Dec. 1909; UK. 16,546, 5 Aug. 1908. Wireless telegraphy for duplex working. 1.

256. Kempshall, E.—11 March 1910; UK. 26,262, 27 Nov. 1907. Tyres of the air pocket non-skid type with projections or recesses round the suction cavities. See also No. 267 of 1908. 1.

257. Kempshall, E.—15 Dec. 1909; UK. 3962, 21 Feb. 1908. Pneumatic tyre protector for the inner tube attached at its edges to outer cover leaving a U-shaped space. 1.

258. Monotype Machine (Colonial Patents) Syndicate.—11 March 1910; UK. 5948, 12 March 1909. Apportioning and distributing mechanism for pattern controlled composing machines such as described in No. 42 of 1909. 11.

259. Martin, H. S.—7 July 1909; UK. 16,968, 24 July 1907. Electric resistance for lamps, etc., of powdered material, the conductivity being adjusted by pressure. 1.

260. Reich, F.—25 Aug. 1909. Ngapi is prepared from fish, etc., in a special form of mincing or grinding machine with grooved roller and grinding surfaces. 1.

261. Crocker, S. H.—10 July 1909; UK. 2412, 3 Feb. 1908. Wood for lead pencils is prepared by treatment with sulphuric acid and then with wax.

262. Composite Fuel Syndicate, Ld.—15 July 1909; UK. 2655, 6 Feb. 1908. Fuel composition of coal, etc., dust with chlorinated hydrocarbons, with or without lime. Improvements on No. 597 of 1906.

263. Sousa, A.—27 Sept. 1909. Latrine combined with incinerator furnace. 1.

264. Church, W.—8 July 1909; UK. 15,954, 27 July 1908. Measuring appliances for boot makers. 1.

265. Parker, T.—16 Aug. 1909; UK. 1972, 25 Jan. 1907. Coke ovens of beehive and other types arranged for production of gas and partly coked coal as described in No. 298 of 1907. 1.

266. Morris, H. N.—8 July 1909. Paddy husk is destructively distilled to produce gas, bye-products and charcoal, preferably in a vertical retort with agitators. 1.

267. Mariano, P. A.—Railway gates.

268. Allen, H. W.—Aëronautics.

269. Jackson, W.—13 July 1909; UK. 9065, 16 April 1909. Tea, etc., packing machine with a shaking table driven by vertical crank or eccentric. 1.

270. Banyai, M.—Weaving.

271. Newton, P. A.—7 Dec. 1909; UK. 26,460, 7 Dec. 1908. Dyeing with oxyanthraquinone dyestuff in a bath containing the dye, mordant and a salt.

272. Lynde, F. C.—15 Dec. 1909; UK. 4863, 28 Feb. 1907. Float feed valve and tank arrangement, specially applicable for carburettors. 1.

273. Wells, H. G., & Anderson, A.—15 Dec. 1909. Jute bagging is coated on both sides with algin glue and water, and is then pressed and dried. 1.

274. Douglas, J., & Geddes, F. G.—30 Oct. 1909. Knee cap or dressing retainer for horses. 1.

275. Pyne, R. W.—8 Jan. 1910. Rice husking machine with reciprocating corrugated surface. 1.

276. Otto-Hilgenstock Coke Oven Co.—22 July 1909; UK. 12,809, 15 June 1908. Tar is removed from hot gas from coke ovens, retorts, etc., by injector and heat interchanging apparatus. 1.

277. Consolidated Brake and Engineering Co. & Luard, E. S.—22 July 1909; UK. 11,256, 23 May 1908. Railway vacuum brake apparatus with quick and emergency valves. 1.

278. Consolidated Brake and Engineering Co. & Luard, E. S.—22 July 1909; UK. 11,255, 23 May 1908. Railway vaccum brake ball valve. 1.

279. Lakshminarayan Rao, K.—Pens.

280. Geyer, H.—15 July 1909; UK. 19,712, 3 Sept. 1907. Combined sawing and drilling machine for cutting slots in masonry to insert damp proof material, etc. 5.

281. British Westinghouse Electric & Manufacturing Co.—21 Dec. 1909; UK. 14,761, [illegible] July 1908. Fluid pressure engines driven by low pressure such as exhaust steam from other engines with special valve arrangement to cut off connection when pressure falls to a predetermined limit. 1.

282. Vassel, B., & Juntke, K.—23 July 1909. Imitation marble slabs or tiles made by coating glass with thin paste of magnesite and colour followed by a thicker paste, and subsequently removing the glass or not.

283. Chalmers, A. M.—11 March 1910. Air heating stove with vertical tubes for tea drying. 3.

284. Shelley, A. D. G.—15 Dec. 1909. Railway carriage and other doors with pivots instead of hinges, and with guards. 1.

285. Eisenwerk (Vormals Nagel & Kaemp) Actien Gesellschaft.—17 Jan. 1910 Paddy separators of the shaking table type with adjustments and feed. 2.

286. Ransom, C.—2 Aug. 1909; UK. 20,725, 1 Oct. 1908. Billiard cues with strengthening core. 1.

287. Somerville, A.—Bags.

288. Deam, J.—12 Oct. 1909; UK. 23,541, 25 Oct. 1907. Steam generators supplied with superheated steam from superheaters. 2.

289. Alexander, W., & Applebys, Ld.—18 March 1910; UK. 12,277, 5 June 1908. Hoisting and traversing appliances of the Temperley and other types with compensating arrangements. 1.

290. Mono Service Vessels, Ld.—19 Jan. 1910; UK. 13,940, 1 July 1908. Paper vessels for milk, etc., machinery for making. 2.

291. Humphries, A. E.—14 Sept. 1909; UK. 13,135, 19 June 1908. Flour or stock in manufacture is sprayed with water which may contain certain salts, maltose and other additions.

292. Mayr, A., & Wallace, J.—Centrifugal fans.

293. Wright, W. J., Armstrong, R. L.—26 Aug. 1909; UK. 15,712, 6 July 1909. Internal combustion engines of the two cycle and compound type. 12.

294. Hyatt, W. H., & Penn, P. D.—26 Jan. 1910; UK. 13,599, 27 June 1908. India-rubber and vulcanite waste is worked and moulded under vacuum. 1.

295. Lebeau, P.—26 Jan. 1910; UK. 200, 4 Jan. 1909. Railway safety locking bars with rotary and longitudinal movement. 1.

296. Longley, A. S.—Wheels.

297. Jenkins, C. F.—18 Aug. 1909; UK. 10,057, 28 April 1909. Paper vessels for milk, etc., machinery for making. 1.

298. Cook, P. W.—18 Aug. 1909; UK. 12,333, 6 June 1908. Railway sleeper of armoured concrete, details of reinforcement and fastenings. 2.

299. Black Sand & Gold Recovery Co.—31 Jan. 1910; UK. 28,553, 31 Dec. 1908. Dredger of the pipe type with injection of air or water into the pipes to lift material. 5.

300. Boog, J. A.—12 July 1910. Dock with screw lifting gear. 1.

301. Ashford, J.—22 March 1910. Sluice gate rollers with roller bearings. 1.

302. Karvan, G. L.—23 Nov. 1909. Slide rule for builder's calculations, etc. 1.

303. Cowburn, T.—12 Aug. 1909; UK. 25,359, 25 Nov. 1908. Egg openers. 1.

304. Snelling, J. C.—12 Aug. 1909; UK. 15,577, 22 July 1908. Concrete slab making machine with hopper, mould and ejecting ram. 2.

305. Turner, J. S., & Maxwell, A. W.—26 Jan. 1910; UK. 6277, 20 March 1908. Bamboo pulp for paper manufacture is bleached after treatment with electrolysed salt and sulphur dioxide solution, followed by an alkaline bath. 3.

306. Fuller, G. & L.—17 Aug. 1909; UK. 14,817, 13 July 1908. Electric heater for running water with platinum plates supplied with alternating currents. 4.

307. Kruse, J. S., Dines, W. D., & Richardson, W. A.—Filter presses.

308. Bleeck, W. A. F.—26 Jan. 1910. Electric primary batteries as in No. 85 of 1908, with gum arabic added to the alkali and ferrous or nickel sulphate added to the acids.

309. Siegert, C. F.—26 Jan. 1910. Gold and other ores are subjected to a preliminary treatment of roasting, addition of salt, sal ammoniac and sulphuric acid, and leaching out copper and base metals.

310. Ramji Dass & Co.—2 Nov. 1909. Rackets for ball games with fluted rubber round the frame. 1.

311. Smith, H. B.—18 Feb. 1910. Recorder for movement of locomotives, etc., with clock work and chart. 1.

312. Lawrence, S. S.—6 Dec. 1909; UK. 14,166, 16 June 1909. Megaphone with a whistle combined with the mouth-piece. 1.

313. Gadkari, D. A., & Pandit, K. N.—Boots and shoes.

314. Jennings, H. B.—22 Dec. 1909. Lock file for loose leaved books. 2.

315. Jost, C.—25 Feb. 1910. Air moistening and cooling screens, such as described in No 262 of 1907, are driven by worm gearing from a fan and are provided with a cover. 1.

316. Howden, J.—19 Aug. 1909; UK. 4340, 22 Feb. 1909. Tea withering, fermenting, and drying processes. The leaf is withered in revolving apparatus supplied with air of regulated pressure and temperature. Fermenting is conducted in a closed vessel under pressure. Drying is done in revolving apparatus under vacuum. 3.

317. Hopkins, M. S., & Barnett, C. R.—8 Oct. 1909. Ink ingredients are recovered from cloths used for wiping engraving plates, etc., by processes of solution, precipitation, etc. 2.

318. Linotype & Machinery, Ld.—Linotype.

319. Linotype & Machinery, Ld.—18 Feb. 1910; UK. 26,676, 9 Dec. 1908. Linotype machinery with changing or adjusting arrangements for magazines, moulds, trimming devices, etc. Improvements on No. 183 of 1909.

320. Sub-Target Co., Ld.—11 Feb. 1910; UK. 13,468, 24 June 1908. Sub-target apparatus of the type in which an aligned cord is used. 1.

321. Murex Magnetic Co., Ld.—11 Feb. 1910; UK. 6148, 10 March 1908. Ores and the like are treated with reagents such as alkalies or alkaline silicates to remove incrustation prior to further treatment.

322. Murex Magnetic Co., Ld.—11 Feb. 1910; UK. 12,962, 17 June 1909. Ores and the like are mixed with magnetic material and adhering material, such as tar or oil, so that non-magnetic minerals are rendered capable of magnetic separation.

323. Garratt, H. W.—11 Feb. 1910; UK. 17,165, 26 July 1907. Locomotive type with large boiler carried low between self-driven bogie tanks with large driving wheels. 1.

324. Gibb, A., & Menzies, T. G.—11 Feb. 1910; UK. 7307, 2 April 1908. Concrete laying apparatus, arrangement of trucks and machines for large works. 3.

325. Rutnagur, S. M., & Wadia, D. M.—11 Feb. 1910; UK. 20,622, 30 Sept. 1908. Carding engines with automatic stop motions. 1.

326. Munwar Khan.—21 May 1910. Plough share. 1.

327. Julian, L., & Gnanaprakasam, V. S.—Street gully.

328. Lezinsky, G.—16 Nov. 1908; UK. 22,555, 23 Oct. 1908. Explosive consisting of a mixture of pulverized cereal and resin treated with nitric acid and an oxidizing agent such as potassium chlorate.

329. Faesen, J. A., Dentz, T. C., & Lehmann, R. A. L.—16 Nov. 1909; UK. 9586, 22 April 1909. Wheel tyres of the solid rubber type held by inclined side flanges and having a free space underneath. 1.

330. Calvert, G.—Tyre inflation.

331. Didelon, C., & Braut, A.—22 Feb. 1910; UK. 11,471, 14 May 1909. Sewage treatment with closed and ventilated tanks and filtering arrangement. 3.

332. Sheffield, G. H., & Twinberrow, J. D.—22 Feb. 1910; UK. 14,147, 16 June 1909. Railway bogie spring suspension; improvement on No. 32 of 1903. 3.

333. Scott, J., & Gottschau, C. M.—26 Feb. 1910; UK. 12,369, 9 June 1908. Cam and tappet valve gear for fluid pressure engines. 1.

334. Hardman, F., & Edmondson, F.—22 Feb. 1910; UK. 28,042, 24 Dec. 1908. Cotton and other fibre, yarn, or fabric is treated with a cold solution of caustic soda and castor or other oil, prior to washing and chemicing for bleaching. Boiling is dispensed with.

335. Solomon, J. I.—22 Feb. 1910. Pearls are extracted from the flesh of mussels, oysters, etc., by treatment in revolving sieve or separator apparatus. 1.

336. Crawford, A. A.—3 Jan. 1910. Electric storage battery details of plates, lugs, connections, separators, boxes, etc. 2.

337. Hutchings, J.—23 Sept. 1909; UK. 16,316, 1 Aug. 1908. Direct acting pumps with special valve arrangements for driving and driven ends, casing and lubrication. 4.

338. Gayley, J.—3 Jan. 1910; UK. 13,553, 9 June 1909. Drying air by refrigeration in stages, specially for blast furnaces. 1.

339. Hutton, W.—Liquid flow regulator.

340. Rosenberg, A.—10 Sept. 1909; UK. 7227, 1 April 1908. Plating process by frictional application of moistened mixtures containing the metal to be deposited, either in a combined or elementary state, on electropositive metal, such as zinc or magnesium and a salt or electrolyte. Diluant, moisture protecting and other materials may be added to the mixture.

341. Gayley, J.—10 Sept. 1909; UK. 13,552, 9 June 1909. Air for blowing blast furnaces and converters is supplied to the blowing engines at an approximately uniform temperature and moisture content, to enable its weight to be regulated. 1.

342. Shoemaker, F.—11 March 1910; UK. 8379, 7 April 1909. Door opening and closing apparatus with pneumatic cylinder and linkages specially applicable for locomotive furnace doors. 2.

343. Compagnie Generale de Phonographes Cinematographes et Appareils de Precision.—4 June 1910. Cinematograph films with emulsion applied only on the part occupied by the photograph and with uncoated borders. 2.

344. Venn, J. & J. A.—11 March 1910; UK. 12,388, 9 June 1908. Bowling machine with adjustments for velocity and length of pitch and break. 2.

345. Lancaster-Sutton, R.—15 March 1910 Mosquito net frame, fitted with punkah, for beds. 1.

346. Harper, S. S.—1 March 1910. Windmills of the vertical type. 9.

347. Goldstein, E. E. L. Von.—22 March 1910. Race starting machine with flexible barrier pulled up by weights. 1.

348. Dallas, J. C.—5 March 1910. Septic tank, latrine, etc., effluents are sterilized by boiling or evaporating them; waste heat from flues may be utilised. 1.

349. Bachmann, A. A., & Duclos, A.—25 Jan. 1910. Friction and belt differential gear for motor cars. 3.

350. Beattie-Crozier, P.—7 March 1910. Polo stick with means for keeping rubber rings in position. 1.

351. Hutchings, J.—23 Sept. 1909; UK. 26,214, 27 Nov. 1907. Turbine driven by combustion products. 10.

352. Hutchings, J.—23 Sept. 1909; UK. 19,124, 27 Nov. 1907. Turbine driven by combustion products. 5.

353. Lassen, A. J. L.—14 Sept. 1909; UK. 2538, 2 Feb. 1909. Capsuling machine for bottles, the capsule material and packing being fed in the form of strip. 2.

354. Pomery, J.—16 Sept. 1909. Furnace for steam boilers with hollow metallic bridge supplying air for smoke combustion. 1.

355. Berry, G. W.—16 Sept. 1909. Commode with reversible valve or pan and liquid supply. 3.

356. Walker, J.—Wheels.

357. Ridler, J. D.—18 Feb. 1910. Fan driven by water motor. 1.

358. Subroyer, E. R.—30 Oct. 1909. Catch, operated from lock handle, for holding hinged doors and windows open or closed. 1.

359. Brooke, C. H.—Expanded metal.

360. Rawling, R., & White, J. T.—18 March 1910; UK. 14,802, 13 July 1908. Ventilating shaft tops with cones and baffles for inducing updraught. 4.

361. Lancaster-Sutton, R.—15 March 1910. Stamp punch with interchangeable jaws and clip for holding it closed. 1.

320. Sub-Target Co., Ld.—11 Feb. 1910; UK. 13,468, 24 June 1908. Sub-target apparatus of the type in which an aligned cord is used. 1.

321. Murex Magnetic Co., Ld.—11 Feb. 1910; UK. 6148, 19 March 1908. Ores and the like are treated with reagents such as alkalies or alkaline silicates to remove incrustation prior to further treatment.

322. Murex Magnetic Co., Ld.—11 Feb. 1910; UK. 12,962, 17 June 1909. Ores and the like are mixed with magnetic material and adhering material, such as tar or oil, so that non-magnetic minerals are rendered capable of magnetic separation.

323. Garratt, H. W.—11 Feb. 1910; UK. 17,165, 26 July 1907. Locomotive type with large boiler carried low between self-driven bogie tanks with large driving wheels. 1.

324. Gibb, A., & Menzies, T. G.—11 Feb. 1910; UK. 7307, 2 April 1908. Concrete laying apparatus, arrangement of trucks and machines for large works. 3.

325. Rutnagur, S. M., & Wadia, D. M.—11 Feb. 1910; UK. 20,622, 30 Sept. 1908. Carding engines with automatic stop motions. 1.

326. Munwar Khan.—21 May 1910. Plough share. 1.

327. Julian, L., & Gnanaprakasam, V. S.—Street gully.

328. Lezinsky, G.—16 Nov. 1908; UK. 22,555, 23 Oct. 1908. Explosive consisting of a mixture of pulverized cereal and resin treated with nitric acid and an oxidizing agent such as potassium chlorate.

329. Faesen, J. A., Dentz, T. C., & Lehmann, R. A. L.—16 Nov. 1909; UK. 9586, 22 April 1909. Wheel tyres of the solid rubber type held by inclined side flanges and having a free space underneath. 1.

330. Calvert, G.—Tyre inflation.

331. Didelon, C., & Braut, A.—22 Feb. 1910; UK. 11,471, 14 May 1909. Sewage treatment with closed and ventilated tanks and filtering arrangement. 2.

332. Sheffield, G. H., & Twinberrow, J. D.—22 Feb. 1910; UK. 14,147, 16 June 1909. Railway bogie spring suspension; improvement on No. 32 of 1903. 3.

333. Scott, J., & Gottschau, C. M.—26 Feb. 1910; UK. 12,369, 9 June 1908. Cam and tappet valve gear for fluid pressure engines. 1.

334. Hardman, F., & Edmondson, F.—22 Feb. 1910; UK. 28,042, 24 Dec. 1908. Cotton and other fibre, yarn, or fabric is treated with a cold solution of caustic soda and castor or other oil, prior to washing and chemicing for bleaching. Boiling is dispensed with.

335. Solomon, J. I.—22 Feb. 1910. Pearls are extracted from the flesh of mussels, oysters, etc., by treatment in revolving sieve or separator apparatus. 1.

336. Crawford, A. A.—3 Jan. 1910. Electric storage battery details of plates, lugs, connections, separators, boxes, etc. 2.

337. Hutchings, J.—23 Sept. 1909; UK. 16,316, 1 Aug. 1908. Direct acting pumps with special valve arrangements for driving and driven ends, casing and lubrication. 4.

338. Gayley, J.—3 Jan. 1910; UK. 13,553, 9 June 1909. Drying air by refrigeration in stages, specially for blast furnaces. 1.

339. Hutton, W.—Liquid flow regulator.

383. Lewis, T. R., & West's Patent Press Co., Ld.—4 Oct. 1909. Cotton gin of the Macarthy's single roller type, construction of gearing, fixed knife and spring mounted roller. 1.

384. Freeland, J. C.—11 March 1910. Tong and rack appliance for removing Jodhpur breeches and other tight garments from the wearer. 1.

385. Taylor, J.—Spinning.

386. Jeudwine, W. W.—Rat trap.

387. Schneider, J. M.—5 Feb. 1910. Ship's signal lights with revolving prisms.

388. Milde, W. H.—16 Sept. 1909; UK. 9950, 7 May 1908. Water level indicator with a float working up and down a spiral connected to dials. 1.

389. Oil Refining Improvements Co., Ld.—11 March 1910; UK. 24,209, 11 Nov. 1908. Vegetable oils are purified with the aid of calcined alumina, magnesia or bauxite.

390. Standard Tobacco Stemmer Co.—11 March 1910. Tobacco stemming machines. 16.

391. Martin, H. S.—14 Dec. 1909; UK. 22,478, 11 Oct. 1907. Composition of flakey material, such as mica, graphite, etc., for use as a mechanical spring or transmitter, as in motor cars, gramophones, or for electric purpose in coherers, &c., etc. 1.

392. Bradbury, J. F.—24 May 1910; UK. 17,790, 25 Aug. 1908. Cotton gin rollers made of fibrous material alone or in combination with leather. 1.

393. Princess Anne of Lowenstein Wertheim.—11 Jan. 1910; UK. 12,868, 1 June 1909.—Ships' bunks, etc., of self-levelling types with electric solenoid attachments for steadying purposes. 2.

394. MacIver, R. G.—21 March 1910. Sealing tag or label for railway wagon and other doors consisting of a paper, etc., strip with its ends eyeletted together. 1.

395. Tholasi Doss, K.—7 Jan. 1910. Water lift with counterbalanced, self-tilting buckets and whim. 1.

396. Napper, W E.—9 April 1910. Railway point and signal interlocking mechanism with detector selectors of mechanical types. 4.

397. Erste Triester Reisschal Fabriks Aktien Gesellschaft.—23 Sept. 1909. Size produced as described in No. 482 of 1905, is treated with acids, alkalies or enzymes to convert the starch into dextrin, sugar, or vegetable glue like bodies.

398. Legge, J., & Chilton, H. H.—Locks.

399. Mederer, M.—25 Feb. 1910. Chilling or preserving chamber with perforated walls, roof and floor, kept damp by water. 3.

400. Haydock, H., & Shorrock, C.—18 March 1910; UK. 11,081, 11 May 1909. Loom shuttles with recesses and shoulders for holding bobbins or pirns of corresponding form. 1.

401. Rouse, F. J.—12 Oct. 1909; UK. 11,926, 20 May 1909. Electrolyte for primary batteries consisting of dry mixtures of sulphuric acid and potassium or sodium chromate or bichromate to which aqueous solutions of salt, etc., are added for use.

402. Parker, T.—12 Aug. 1910. Gas manufacture, arrangements of vertical retorts, common discharging chamber, mixing chambers, etc. Reference is made to No. 298 of 1907. 2.

03. Pollak, A.—25 Sept. 1909; UK. 19,282, 27 Aug. 1907. Electric current impulses or variations for telegraphs and telephones are strengthened by arrangements of coils, magnetic fields, microphone diagrams and air gaps. 1.

404. Wright, E.—23 Sept. 1909; UK. 9598, 22 April 1909. Decorticating machine with pins on revolving drum cleared by strips operated by moving in an eccentric track. 2.

405. Brook, J. H.—Sewage.

406. Novel, J.—18 March 1910; UK. 1248, 18 Jan. 1909. Combustible mixtures for use in explosion motors are prepared by mixing benzine with distillation products of mixed alcohol and acid; acetone and ether may be added.

407. Hibberd, C. E.—Coin-freed apparatus.

408. Thorpe, W. B.—17 Nov. 1909; UK. 865, 14 Jan. 1908. Electric meters of the electrolytic type, with or without prepayment attachments, arrangements for preventing leakage of gas. 2.

409. Perrins, H.—Wheels.

410 Claviez, E.—4 June 1910; UK. 27,123, 14 Dec. 1908. Material for spinning prepared by combining paper made from wood pulp or cellulose with a fleece of textile fibres. A combination of carding engine and paper engine is described and the product is cut into strips. 1.

411. Freymuth, W. A.—22 March 1910. Lac is refined by a vanning process after sizing. Reference is made to No. 457 of 1908.

412. Marsland, J. J.—18 March 1910 Centrings or moulds with guides and movable boards, etc., for surfacing concrete in the construction of columns, floors, etc. 4.

413. Nicolas, C. P.—Range finder.

414. Smyth, A. H.—13 Dec. 1909. Railway point and signal with lock lifted mechanically and held by electromagnet. 2.

415. Watson, J. A. M.—8 June 1910. Water lift using exhausted reservoir. 1.

416. Cook, P. W.—8 Dec. 1909; UK. 16,797, 19 July 1909. Railway sleepers of concrete reinforced by special arrangements of rods and distance pieces. 1.

417. Corrie, M. L.—11 Feb. 1910. Mosquito frame of folding portable type. 1.

418. Mustad, T.—16 April 1910. Gas lamp lighting and extinguishing apparatus, controlled by float for illuminated signs. 1.

419. Colam, H. N.—Windows.

420. Beamer, A.—30 Sept. 1909. Railway operation method by train despatchers issuing written orders on a block system. 2.

421. Tristram, H. W.—25 Feb. 1910. Slings for horses and other animals. 2.

422. Crompton & Co., Ld., Macfarlane, J. C., & Burge, H.—14 Oct. 1909; UK. 8065, 11 April 1908. Dynamos and rotary transformers to give a varying secondary potential with constant current and regulation of the currents. 2.

423. Thorpe, W. B., & Thorpe Meter Syndicate, Ld.—Electrolysis.

424. Balg, B.—18 March 1910. Hollow blocks, for building purposes, closed on all sides and made in a press by inserting partitions in, or by intermittently removing the core from, the hollow stream. 2.

425. Buchanan, J. L.—12 Oct. 1909; UK, 27,083, 14 Dec. 1908. Soaps for use in sea water are made of a mixture of soda, cocoanut oil or other oil soap with a potash resin or colophony soap.

426. Macnair, J. I.—18 March 1910; UK. 3248, 10 Feb, 1909. Water sterilizing apparatus consisting of a boiler discharging into a reservoir by steam pressure. 1.

427. Stumpf, J.—28 May 1910; UK. 8372, 15 April 1908. Steam engines, especially of locomotive type, with exhaust ports in cylinder controlled by main piston and with inlet valves controlled by link motion. 1.

428. Stumpf, J.—28 May 1910; UK. 16,109 of 1908, 15 April 1908. Steam engines similar to No. 247 above with additional exhaust passage to prevent drainage passing with main exhaust. 1.

429. Walker, T.—Railway signalling.

430. Chhullany, Rattanchand Kesrichand.—Medicine.

431. Mir Ibrahim Hossain.—Phonographs.

432. Karim Ilahi & Nabi Baksh.—12 Oct. 1909. Locks of padlock or other form with two bolts operated by separate keys in succession. 1.

433. Orr, C. R.—16 Nov. 1909; UK. 25,502, 26 Nov. 1908. Spinning spindle stop motions and driving arrangements. 1.

434. Alley, S.—7 Oct. 1909. Wheel tyre removing and replacing device. 2.

435. Koszegi, K., & Szechenyi, C. E.—7 Oct. 1909. Cultivating machine, as in No. 138 of 1909, with discs cut away before the holes. 1.

436. Forbes, O. V.—7 Oct. 1909; UK. 6286, 15 March 1907. Boots and shoes with detachable outer soles. 1.

437 Gresham, H. E., & Kiernan, G.—19 March 1910; UK. 18,830, 8 Sept. 1908. Ejectors for vacuum brake apparatus. 3.

438. Spencer, A.—12 Oct. 1909. Railway vehicle couplings and buffers for two vehicles supported on a common bogie or truck. 2.

439. Bevan, W. R., Blackmore, A., Harvie, W. J., Morley, D. T., & Watney, W. S.—4 March 1910; UK. 22,212, 20 Oct 1908. Nut lock with grooved roller and spring in recess in nut parallel to the bolt. 1.

440. Blackmore, A., Morley, D. T., & Watney, W S.—4 March 1910; UK. 4995, 1 March 1909. Nut lock of similar type to No. 439 above with holding attachments. 1.

441. Thompson, R. F.—4 March 1910. Smoke boxes for boilers of the locomotive type with baffles and means for catching and removing ashes and special construction of exhaust mozzle. 4.

442. Societe Anonyme pour l'Exploitation des Procedes Westinghouse—Leblanc.—19 March 1910. Condensing or refrigerating apparatus with treatment of the liquid in a partial vacuum to remove air. 1.

443. Lock, W. H.—5 July 1910; UK. 17,086, 22 July 1909. Stereotype printing plates, machine for casting. 1.

444. Forbes, J. S.—Heating.

445. Gill, J.—19 March 1910; UK. 18,889, 9 Sept. 1908. Briquetting machines for ores, fuel, etc., with mould and pressing drums. 2.

446. Rincker, F. G. C., & Wolter, L.—5 April 1910; UK. 10,422, 13 May 1908. Gas producers as described in No. 513 of 1904 for converting tar into [illegible] with alternate working. 1.

447. Compagnie Internationale des Wagons Lits et des Grands Express Europeans.—24 May 1910. Cooling railway carriages by air circulation over cooler and through compartments. 1.

448. Siegwart, H.—26 Jan. 1910. Tubes of concrete, with or without reinforcement, are made by wrapping concrete spirally on a core under pressure. 10.

449. Bastian, C. O.—15 Oct. 1909; UK. 19,333, 15 Sept. 1908. Electric heating by coiled or bent nickel or other resistance wire supported by tubes, etc., of quartz or quartz containing materials. 1.

450. Hale, F. M.—15 Oct. 1909; UK. 15,045, 15 July 1908. Grenade construction and propulsion. 2.

451. Krassilnikoff, N. D.—5 April 1910; UK. 13,664, 10 June 1909. Ship propulsion by paddles on endless chains. 1.

452. Taylor, J.—4 Feb. 1910. Baling press for jute, etc., of the toggle lever type with toggles operated through levers and chains from winches. 2.

453. Harnamsingh.—Water-lift.

454. Raw, L. H.—2 May 1910. Ramie and similar fibre is laid in the earth as one stage in its preparation. Seee also No. 580 of 1909.

455. Jaeger, F., & Siewet, A.—4 Nov. 1909; UK. 598, 9 Jan. 1909. Masts for signalling purposes and telegraphs, for support for various purposes, or for use as towers, etc., are constructed of flexible strips which are held in position by cross pieces or interlocking. 6.

456. Thorpe, W. B.—15 April 1910; UK. 4258, 20 Feb. 1909. Electric meters, time switches, etc., with electrolytic action as in Nos. 408 and 423 of 1909. 2.

457. Morton, G. L.—22 March 1910; UK. 3,462, 15 Feb. 1908. Gas producer adapted for bituminous fuel, arrangement of air supply and radiating wall or roof. 2.

458. Barrowman, R. C., & Wilson, J.—Loading coal.

459. Muirhead, A.—17 Nov. 1909; UK. 19,450, 16 Sept. 1908. Telegraph relay and retransmission devices for cable work. 2.

460. Mahboob Ali Khan.—Boots polish.

461. Webb, W. H., Brettell, W. G., & Adamson, A. J.—8 Dec. 1909; UK. 14,109, 3 July 1908. Ice making apparatus with agitation by air blown into the cans or cells from below. 1.

462. Edwards, A. H., & Rucker, M. D.—4 Nov. 1909; UK. 4519, 28 Feb. 1908. Aëroplanes and like machines. 4.

463. West, D. G., & West's Patent Press Co., Ld.—1 Dec. 1909. Bale hoops with doubled ends secured by stud in holes. 1.

464. Schuetz, F. A.—4 Nov. 1909. Oil lamp burner attachment for flat flame with round wick. See also No. 182 of 1909. 1.

465. Russel, F. V.—7 Dec. 1909; UK. 23,915, 7 Nov. 1908. Valve gear for locomotives and other steam engines with the eccentrics having throws or angles of advance, or both, unequal. 1.

466. Star Seal Co.—20 Nov. 1909; UK. 19,446, 24 Aug. 1909. Bottle sealing machines with spring in head for compensating for varying height of bottles. 2.

467. Linotype & Machinery, Ld.—3 May 1910; UK. 11,581, 28 May 1908. Linotype machinery with adjustment for moulds, trimming devices, etc., to give basal alignment of characters of diverse depths. 9.

468. Hutton, W.—Filter.

469. Furdoonji, F. N.—Reins.

470. Sharp, R. J., & Quelch, M.—12 Jan. 1910; UK. 18,854, 16 Aug. 1909. Typewriters with attachments for counting words or folios. 1.

471. Price, W. J., & Bridge, B. I.—11 March 1910; UK. 19,414, 24 Aug. 1909. Railway vehicle couplings of the automatic link and hook type. 4.

472. Marshall, G. E.—10 Feb. 1910; UK. 7473, 4 April 1908. Boxes, etc., with airtight linings and lids. 1.

473. Richards, E. P.—17 Jan. 1910. Silt catcher for drains, etc., consisting of a bucket and baffle specially arranged. 1.

474. Greengrass, C. J.—Railway chairs.

475. Crawford, A. A.—24 Jan. 1910. Railway vehicle, etc., lighting systems with dynamo and battery current, arrangement and construction of automatic and other switches and regulators. 4.

476. Ashford, J.—25 June 1910. Weir shutters with quick release and consecutive action. 2.

477. Grogan, H. C.—2 April 1910. Fan worked by turbine and vacuum pipes on train. 1.

478. European Brake Shoe Co.—21 Dec. 1909; UK. 20,040, 1 Sept. 1909. Metal castings with embedded metal cores, etc., the latter being coated with certain materials before the cast metal is applied.

479. Smith, T. M.—22 March 1910; UK. 18,941, 17 Aug. 1909. Invalid lifter with hydraulic lifting column, swinging arm and wheeled base. 6.

480. Ferguson, T.—22 March 1910; UK. 17,311, 18 Aug. 1908. Dynamos with controlled output or varying speed. 5.

481. Ashworth, T. & E. G.—28 May 1910; UK. 20,070, 24 Sept. 1908. Lubricating picker spindles of looms. 1.

482. Reid, A. A.—6 Oct. 1910. Road roller of light wrought iron construction with ballast tank. 1.

483. Eckersley, A.—31 May 1910. Closet with automatic disinfectant supply and self-closing valve. 2.

484. Christian, W.—22 March 1910. Paints of non-corrosive, anti-fouling types containing silicate of soda, ammonia, alum, arsenic, pipe clay, resin, tallow, oils, driers, oxides of iron, zinc, etc.

485. Costa, J. F.—17 Nov. 1909; UK. 19,855, 30 Aug. 1909. Baking pans for bread, etc., made to contain several loaves, and shaped from a single sheet with a single rim wire. 2.

486. Narain Singh.—Treadmills.

487. Marshall, A. G., Moore, H. M., & Spurway, W. H. P.—22 Dec. 1910. Ratchet tightening gear for tats used in withering and drying tea and other materials. 3.

488. Whitney, A.—Railway signalling.

489. Amrithalinga Achary, T. K.—9 Dec. 1910. Wire drawing machine and dies. 2.

490. Schmidt, S. R.—11 Feb. 1910. Bottle stoppering devices for preventing refilling. 1.

491. Harrop, E. G.—9 Dec. 1909; UK. 8392, 7 April 1909. Finger rings with expanding joint. 1.

492. Suzuki, T.—16 Dec. 1909; UK. 20,462, 7 Sept. 1909. Evaporators with trays for making sugarcandy. 3.

493. Hardy, J. R.—24 May 1910; UK. 20,363, 6 Sept. 1909. Vacuum brake cylinders with a flexible diaphragm instead of a piston. 1.

494. Harrington, R., & Young, E. W. S.—25 June 1910; UK. 16,067, 9 July 1909. Railway brake rods with automatic adjustment for wear. 1.

495. Castles, W.—12 Feb. 1910. Excavating or trench digging machine of the plough and elevator wheel type. 7.

496. Torrington, F. W.—25 June 1910. Tap for serving aërated liquids. 1.

497. Walke, C.—3 March 1910.—Cotton gin rollers constructed with grooved washers and with a twisted shaft. 1.

498. Barker, A.—11 Feb. 1910; UK. 19,536, 31 Aug. 1909. Carburettor or vaporizer for oil engines, arrangements for heating and for vibrating the screen surfaces. 2.

499. Jhammanlal & Bedram.—19 March 1910. Padlock of tumbler type with special form and operation of shackle, case and other safeguards. 1.

500. Horwood, E. J.—11 Nov. 1909; UK. 1789, 25 Jan. 1909. Ores to be separated by a flotation or granulation process are subjected to heat or other preliminary treatment to obtain a selective separation.

501. Kimber, A., & Thornton, E.—2 Sept. 1910. Roofing and flooring tiles of concrete reinforced by metal, bamboo or cane. 1.

502. Kimber, A., & Thornton, E.—2 Sept. 1910. Beams, joists, etc., of concrete reinforced by bamboo or cane.

503. Roy, C. M.—24 Nov. 1909. Beater bars for disintegrators of Carr's type. 1.

504. Samwell, N.—3 Jan. 1910. Dredger with adjustment for the ladder. 1.

505. Hudson, E., & W. S.—11 Feb. 1910; UK. 15,214, 29 June 1909. Wagon rim construction to strengthen the corners. 1.

506. Dutton, C., & McKenzie & Holland, Ld.—4 March 1910; UK. 784, 12 Jan. 1909. Railway electric signalling and interlocking system for allowing up or down working on one line of rails, dispensing with vouchers. 5.

507. Hall, J. W., & Baynes, C.—2 May 1910; UK. 9842, 6 May 1908. Wheel rims for pneumatic tyres of detachable and sectional types applicable to wheels out of truth. 3.

508. Hall, J. W., & Baynes, C.—Wheels.

509. Hukam Chand.—15 March 1910. Bullock gear with special arrangement of frame, spur and bevel gearing and fly wheel. 2.

510. Mudaliar, M. S. S., & M. S. S.—21 July 1910. Water lift worked by weight moving on an incline which is tilted alternately in opposite directions. 4.

511. Laigle, R.—Mantles.

512. Wakefield, C. C.—22 March 1910; UK. 1424, 20 Jan. 1909. Calcium carbide blocks are made with sugar and sulphur as a binding agent and are impregnated with oil.

513. La Cie. Francaise des Produits-Lactes.—Vinegar.

514. Teal, O. J.—23 April 1910. Railway vehicle axle boxes, construction of dust shields, packing, and lubrication. 1.

515. Jones, A. O.—20 Nov. 1909; UK. 27,443, 12 Dec. 1907. Coke ovens of the regenerative type, arrangement of passages and valves. 4.

516. Hazen, M. W.—9 May 1910. Typewriter of folding type, details. 6.

517. Blair, W. G., Saxby & Farmer (India), Limited, & Saxby & Farmer, Limited.—11 Dec. 1909. Railway electrically controlled facing point lock; improvement on No. 551 of 1907. 1.

518. Owen, G. K.—Typewriters.

519. Murphy, W. H.—11 Dec. 1909. Levelling device with graduated vertical tubes connected by flexible tubes to a water reservoir. 1.

520. Hacking, R., Hill, H. & H. W.—18 Nov. 1909. Dust laying and road treating composition of silicate of soda, turpentine, tar and water.

521. Inter-oceanic Engineering Co. & Jackson, E. L.—10 May 1910; UK. 19,339, 23 Aug. 1909. Railway non-automatic couplings of the screw and link type. 1.

522. Duchanoy, M., Bousquet, G., & Davicion, M.—22 March 1910; UK. 20,492, 7 Sept. 1909. Gas producer, construction of rotary bottom and of fuel feeding device. 2.

523. Solomon, J. I.—3 May 1910. Pearls are extracted from the flesh of oysters, etc., by treatment on fixed or revolving screening or sifting apparatus under steam, gas or liquid pressure or suction. Improvements on No. 335 of 1909. 2.

524. Cazaly, W. H.—Boots and shoes.

525. Nichol's, E. J.—Measures.

526. Goddard, A.—Valves.

527. Sham Sunder Lall & Radha Rawan Lal.—Dentifrice.

528. Coxe, J. C.—10 Jan. 1910. Filing paperholder with boards connected by parallel links with or without end guard and tumbler lock with two bolts. 3.

529. Morgan, F. J.—31 May 1910; UK. 6747, 26 March 1908. Water waste preventor or flushing tank with bull valve and siphon discharge designed to remain normally empty. 1.

530. Morgan, F. J.—31 May 1910; UK. 18,171, 29 Aug. 1908. Improvements on No. 529 above. 1.

531. Hall, J. H.—24 May 1910; UK. 15,993, 28 July 1908. Spare rim and tyre attachments for pneumatic tyre wheels. 1.

532. Reid, A. T., & Riekie. J.—Wheels.

533. Boutet, G. J.—28 May 1910. Internal combustion engine vaporizer for heavy oils, heated by combustion products. 5.

534. Brooks, E. J.—24 May 1910. Seal fastening with metal strip and label for railway wagons. 1.

535. Perrins, H.—31 May 1910; UK. 7355, 3 April 1908. Disc wheels with detachable trough section for pneumatic tyres. 3.

536. Wright, W.—14 Dec. 1909; UK. 27,938, 23 Dec. 1908. Wheels for road vehicles readily detachable from their hubs. 1.

537. **Metcalfe, J., J. C. & R. D.**—24 May 1910; UK. 7,294, 26 March 1909. Ejectors for railway vacuum brake apparatus. 2.

538. Rock Drill Appliances Syndicate, Ld.—24 May 1910; UK. 14,529, 8 July 1908. Rock drill chuck detachable from piston rod and undivided cylinder cover. 1.

539. George Keighley, Ld., & Keighley, E.—24 May 1910; UK. 21,709, 23 Sept. 1909. Loom automatic shuttle changing mechanism. 2.

540. Rees, D. W., & Moreton, W. G.—31 May 1910; UK. 24,974, 20 Nov. 1908. Railway vehicle drawgear, central springs and box or cradle therefor in two parts. 1.

541. Pribil, A.—28 May 1910; UK. 26,865, 10 Dec. 1908. Lubricator with ball valve on the oil passage opened by jolting. 1.

542. Jones, A. W.—14 Dec. 1909; UK. 25,262, 14 Nov. 1907. Coke ovens with vertical heating flues, arrangement of gas supply pipes. 2.

543. Landenberger, D.—24 Sept. 1910. Alloys of copper and zinc with metals of the iron group are made by reducing the latter from their chlorides by molten zinc which may be aided by aluminium.

544. Snee, W.—9 Dec. 1909; UK. 21,546, 21 Sept. 1909. Blade or vane construction for wind, water or other motors. 4.

545. Monin, A.—9 Dec. 1909; UK. 1935, 28 Jan. 1908. Mixture of raw and burnt natural sulphate of lime is used as a substitute for kaolin and talc in manufactures of india-rubber, paint, varnishes, oil cloth, leather, fabrics, etc.

546. Wagner, F.—9 Dec. 1909; UK. 21,827, 24 Sept. 1909. Valves prevented from oscillating as described in No. 479 of 1908, arrangement of throttling member and control valve; applicable to steam regulators for locomotives. 2.

547. Societe Anonyme "La Photographie des Couleurs," Sury, J., & Bastyns, E.—28 Nov. 1910; UK. 27,686, 19 Dec. 1908. Photographic three colour printing process.

548. Abersohn, A. A. J.—Envelopes.

549. Curtis, J. N.—15 April 1910. Railway vacuum brake with automatic ratchet means for taking up wear of shoes. 1.

550. Goddard, A.—Doors and gates.

551. Crawford, A. A.—18 Dec. 1909. Electric batteries are spring supported under railway vehicles. 1.

552. Maung Ba Pe.—Sandals.

553. Ram Ratan.—11 March 1910. Railways, signalling and applying brakes on the train by electrical means. 7.

554. Kanhialal Nandkishore.—7 Feb. 1910. Locks of the lever type with a number of bolts successively operated by separate keys and with additional key to control withdrawal of the keys. 1.

555. Kanhialal Nandkishore.—7 Feb. 1910. Padlock casing with ledges or flanges to protect joints from being forced. 1.

556. Ashford, J., & Leggett, S.—6 June 1910.—Sluice gates of the Stoney type, improved construction of roller tracks on rockers instead of knife edges. 1.

557. Wall, A. W.—3 Jan. 1910; UK. 23,080, 30 Oct. 1908. Bicycle motor attachment, consisting of motor, and third wheel, parallel to the rear wheel, to supplement pedal driving. 5.

558. Calichiopulo, A.—29 July 1910; UK. 19,556, 25 Aug. 1909. Sighting devices for firearms, surveying instruments, etc., with slits, circular or other apertures of different sizes in the fore and back sights. 1.

559. Mather, W. A. & E.—24 May 1910; UK. 23,322, 2 Nov 1908. Loom automatic reshuttling apparatus. 4.

560. Tarafirma, Limited.—25 June 1910; UK. 6,680, 20 March 1909. Heating, drying and mixing apparatus for tarmacadam for roads, etc. 2.

561. Arbuckle, A. J., & Osborne, A.—31 May 1910. Filtering and settling apparatus for ore slimes, etc., with continuous settlement on perforated settling shelves and removal by scrapers; improvements on No. 86 of 1909. 2.

562. Arbuckle, A. J.—31 May 1910. Filtering or settling apparatus for ore slimes, etc., with continuous settlement on inclined surfaces. 2.

563. Ghosh, C. C.—18 June 1910. Spinning machine with the winding spindle driven by a treadle. 1.

564. Bamanshaw, T.—2 Sept. 1910; UK. 23,292, 2 Nov. 1908. Key with screws or packing in socket to adjust its size for use with different sizes of valve or other spindles. 2.

565. Elder, D.—3 Jan. 1910. Batching mixture of oils, water and alkali prepared in tanks with application of heat and agitation; supply from common tanks to a number of machines.

566. Petermann, O.—9 May 1910.—Typewriters of the folding type and details. 8.

567. Forbes, Mrs. E. R.—31 Jan. 1910. Bolt and nut safety device consisting of a pin inserted in holes in the bolt and connected to the nut by a chain or wire which is wound round the thread. 1.

568. Jog, R. M.—11 Jan. 1910. Casks and barrels with built-up sheet metal lining and outer wooden casings. 1.

569. Rice, J. V.—9 May 1910. Internal combustion engine with eccentric compression chamber and piston between explosion ends, attachments of piston rods, etc. 4.

570. Ewen, M. F., & Tomlinson, G. H.—5 April 1910. Sugar is produced from ligno-cellulose by hydrolizing with the aid of acid under given conditions of temperature, amount of water and acid. 1.

571. Hills, J. L.—11 Feb. 1910. Locomotive ash pans with movable louvred bottoms for discharge. 1.

572. Hildburgh, W. L.—16 April 1910; UK. 22,724, 26 Oct. 1908. Advertising devices with superposed plates, movable relatively to each other to give various illuminated letters or patterns, plain or coloured. 3.

573. Whitney, A.—16 March 1910. Railway point operating mechanism as described in No. 600 of 1907 with ramp bearing surfaces for the tongue arms. 1.

574. Whitney, A.—16 March 1910. Railway point and signal lever locking frames with both halves of the tappet plunger worked from the catch rod. 1.

575. Dhar, J. L., Misser, G., & Singh, R.—Music.

576. Sheffield, G. H., & Twinberrow, J. D.—4 June 1910; UK. 13,743, 11 June 1909. Railway vehicle buffers with frictional device and combination of spiral and volute springs to take up stock. 2.

577. Friedlaender, A.—6 Dec. 1910; UK. 28,541, 31 Dec. 1908. Umbrellas as described in No. 266 of 1908 with part of reinforcement on the ribs omitted and with short stretchers. 1.

578. Jackson, W.—21 Dec. 1909. Shaking and sifting apparatus for opening up balled tea, etc. 2.

579. Forbes, J. S.—21 Dec. 1909; UK. 17,052, 13 Aug. 1908. Heating and sterilizing apparatus for water, milk, etc., on the heat interchange principle. 1.

580. Raw, L. H.—Fibre.

581. Roberts, J.—3 Jan. 1910; UK. 7448, 4 April 1908. Billiard table pockets with open ball receptacles and cushions. 1.

582. Consolidated Brake & Engineering Co., Ld., & Luard, E. S.—3 Jan. 1910; UK. 1466, 21 Jan. 1908. Pump rods, piston rods for railway brake apparatus, etc., with bronze or like casing tubes shrunk on and secured by a collar. 1.

583. Holland, G. E.—3 Jan. 1910; UK. 861, 13 Jan. 1909. Ships or lighters for cargo with longitudinal passage, openings between bulk heads, and a movable elevator such as described in No. 316 of 1902. 1.

584. Burn & Co.—4 Jan. 1910. Paddy husking and polishing machine with revolving blade in a vertical cylindrical container which is closed by a piston forced down by screws. 1.

585. Potter, E. W.—24 Jan. 1910. Handloom with picker arms connected by springs and wire connection to the slay. 2.

586. Fox, R.—7 Jan. 1910; UK. 5900, 11 March 1909. Horse shoes with calks or roughed surfaces made from special rolled bar, which permits bending without breaking. 1.

587. Dey, M. L.—Pans.

588. Barber, T. W.—7 June 1910; UK. 24,362, 4 Nov. 1907. Railway six-wheeled vehicles with underframing arranged for keeping the three axles radial on curves. 1.

589. Mills Equipment Co., Ld.—3 Jan. 1910; UK. 5076, 2 March 1909. Military equipment with sling members provided to carry a coat in place of knapsack. 1.

590. Mills Equipment Co., Ld.—3 Jan. 1910; UK. 7473, 29 March 1909. Cartridge carriers with metallic brackets, fingers, etc., for holding the points out of contact with the bottom of the woven pocket. 1.

591. Sait, S.—18 Feb. 1910. Oil vapour lamps, construction of base and burners. 1.

592. Greengrass, C. J.—Stoppering bottles.

593. Schaul, G.—3 Jan. 1910; UK. 14,609, 9 July 1908. Electric batteries with elements of zinc and of manganese carbon with a paste of chloride in an electrolyte of amylaceous substances and chlorides. The manganese carbon compound is prepared by melting the metal in a plumbago crucible. 1.

594. Bliss, J.—9 June 1910; UK. 1468, 21 Jan. 1909. Cooling, heating or moistening air and cooling or heating water in apparatus with a tank having a porous bottom from which water flows over spaced walls or plates between which air flows. 1.

595. Harichand Mancharam & Son.—12 Feb. 1910. Safes with the back plates secured inside, inturned flanges on the sides are safeguarded by a panel plate, filling the space within the flanges. 1.

596. Elektriche Dauergluhlampen G. m. B. H.—4 June 1910; UK. 8283, 6 April 1909. Electric incandescent lamps are regenerated by admitting hydrocarbon, free from air, and heating the filament. 1.

597. Jackson, W.—11 Feb. 1910; UK. 24,954, 29 Oct. 1909. Tea drying apparatus with an endless inclined conveyor on to the shelves of which tea is spread evenly by a distributor. 1.

598. Jackson, W.—11 Feb. 1910. Tea drying apparatus with superposed louvres or shelves opened and discharged at intervals by gearing. 2.

599. Unverricht, E.—8 June 1910; UK. 24,244, 22 Oct. 1909. Railway electric block system with interconnected electric switches operated by trains. 4.

600. Killen, E. B.—8 June 1910; UK. 2780, 7 Feb. 1908. Wheel tyres with dumb-bell shaped pneumatic rubber studs. 2.

601. Craig, W. J.—25 June 1910. Roller bearings for the blocks of oil mills or *ghannies*. 1.

602. Tully, C. W., Simons, C. H., & Murray, J. A.—25 June 1910. Railway brakes with adjustment for wear of shoes by automatic insertion of packing pieces in the rodding. 1.

603. Baumgarten, D. L.—5 April 1910. Acetylene generator details and automatic feed of carbide. 6.

604. Borup, C.—Sugarcane mill.

605. Gill, E. R.—16 June 1910. Signal circuit indicator, especially applicable for telephonic train despatching. Reference is made to No. 293 of 1906. 2.

606. Wakefield, J. G.—3 Oct. 1910. Safety hat pin. 1.

607. Schnapp, F.—3 March 1910; UK. 24,203, 21 Oct. 1909. Water discharge regulator with several leak-off or float controlled valves. 1.

608. Barrios, M.—6 Jan. 1910.—Alum is used in sugar manufacture for removing gum, colour, etc.

609. Holle, A. A.—6 Jan. 1910; UK. 27,114, 14 Dec. 1908. Steam and other fluid pressure turbines in which pressure is admitted intermittently to have an impact action. 1.

610. Brown, N. S., & Maloney, J.—6 Jan. 1910; UK. 8478, 8 April 1909. Knot tying appliances for textile threads, yarns, etc. 1.

611. Brenner, P., & Hoffmann, O.—25 June 1910. Valves for pumps, blowers, compressors, etc., with flexible ring seatings. 1.

612. Benaglia, V., & Grimaldi, U.—25 June 1910; UK. 19,097, 19 Aug. 1909. Cinematograph apparatus with reflection from opaque strips. 1.

613. Meissner, M.—11 Feb. 1911. Lamps burning oil vapour, construction of vaporizer.

614. Hutchinson, T. J., & United Railway and Trading Co., Ld.—31 May 1910; UK. 20,268, 11 Sept. 1907. Digesters of the vertical "vomiting" type, mounted on trunnions, with removable cover and control of discharge. 2.

615. Cockerill, T.—31 May 1910; UK. 21,441 of 1908, 12 Oct. 1907. India-rubber or caoutchouc is separated from the latex by electrolytic means. 1.

616. Jardine, D. P.—24 Sept. 1910. Recording machine for loaded tubs, trucks, wagons, etc.

617. Madeley, J. W., & Richards, E. P.—17 Sept. 1910. Sewage connections with non-return ball valve, silt chamber, overflow, etc., also applicable for other liquid control. 2.

618. Whalley, F.—19 Feb. 1910. Loom stop motions arranged to throw out the take-up. 1.

61[illegible]. Molkentin, P. T.—16 April 1910. Fastenings and adjusting stays for windows and doors. 1.

620. Paranjape, V. K.—27 June 1910. Stoppers for bottles flanged to exclude dust. 1.

621. Macpherson, A.—Gas manufacture.

622. Naylor, W.—Cooking appliances.

623. Brey, J.—6 Jan. 1910. Motor tractor for ploughs and transport purposes with running wheels and also drum hauling on anchored rope. 2.

624. Rotary Ring Spinning Co.—15 Nov. 1910; UK. 21,651, 22 Sept. 1909. Spinning ring and holder for bobbin and ring spinning. 1.

625. Clark, J. M.—2 Sept. 1910. Target practice attachment for firearms with small target near the muzzle and spring pin appliance in the bore. 1.

626. Robertson, P. L.—24 Sept. 1910; UK. 9980, 7 May 1908. Screws with a square and converging recess instead of a nick in the head. 1.

627. Leese, J.—2 Sept. 1910; UK. 4819, 27 Feb. 1909. Abrasive and polishing material, for metals, consisting of finely divided anhydrous normal magnesium carbonate.

628. Vickers Sons & Maxim, Limited.—1 June 1910; UK. 22,132, 28 Sept. 1909. Firearms, special form of tubular foresights. 1.

629. Bettington, C. A.—9 Feb. 1910; UK. 24,637, 16 Nov. 1908. Pulverizing apparatus, specially adapted for coal for dust-fired furnaces, of the impact type with separator for coarse material. 1.

630. Electric Renovator Manufacturing Co.—1 Sept. 1911. Dust removing apparatus for household use with a centrifugal exhauster driven by an electromotor. 4.

631. Korts, R. E.—24 Feb. 1910. Deep boring, combined bit and under reamer for rope boring. 2.

632. Dallas, J. C.—5 July 1910. Latrine flush with measuring chamber and connected inlet and outlet clack valves operated by weight of user. Improvements on No. 99 of 1908. 1.

633. Jardine, D. P.—Bricks.

634. D'Esterre, H. E.—14 Jan. 1910. Tea rolling tables with doubly curved battens. 1.

635. Macdonald, C.—18 March 1910. Feed box for horses, etc., with apertured cover. 1.

636. Gill, H. D.—24 March 1910. Oil engine with spraying device mounted in the water cooled explosion chamber and directing oil into the vaporizer. 1.

637. Seward, F.—Bricks.

638. Sharafdin, A.—Centrifugal fans.

639. West, D. K.—25 June 1910; UK. 22,283, 30 Sept. 1909. Cotton gins of single or double roller type with endless chain or driving belt. 2.

640. Bell, G. G., & Pletts, J. St. V.—12 Feb. 1910; UK. 2258, 24 Oct. 1908. Electric hot water apparatus with heat store. 3.

641. Noe, A. T.—25 June 1910; UK. 1567, 23 Jan. 1908. Dust removers and carpet sweepers with electrically driven exhausting fan of portable type.

642. Warne-Browne, A. J.—25 June 1910; UK. 25,909, 22 Nov. 1907. Boxes for transport of goods fitted inside with one or more platforms supported by springs. 1.

643. Etrich, I.—5 July 1910. Footstep bearings with central passage to reservoir from which dirty oil can be removed. 1.

644. Etrich, I.—5 July 1910. Spinning, tensioning devices for the spindle drives. 1.

645. Couch Rice Milling & Manufacturing Co.—13 Jan. 1910. Hulling machine for rice of horizontal type with eccentric revolving cone with teeth and ribs, and casing with adjustable hulling bar and screen. 1.

646. Ristell, A. E. V.—16 Feb. 1910. Railway signal wire compensator with rack and weighted pawl. 2.

647. Flintoff, T.—Windows.

648. Cosserat, W. A. P.—Railway points.

649. Cosserat, W. A. P.—Railway signalling.

650 Cosserat, W. A. P —Railway points.

651. Kershaw, A. G., Saxby & Farmer, Ld., & Saxby & Farmer (India), Ld.—28 April 1910. Railway signalling, etc., apparatus with electric control for locking and releasing keys, levers, etc. 4.

652. Silent Writing Machine Co.—27 Jan. 1910; UK. 13,083, 3 June 1909. Typewriter key actions. 2.

653. Silent Writing Machine Co.—27 Jan. 1910; UK. 9785, 24 April 1909. Typewriter platen shifting mechanism. 5.

654. Silent Writing Machine Co.—27 Jan. 1910; UK. 9786, 24 April 1909. Typewriter shift mechanism for machines with two or more types on carriers. 5.

655. Silent Writing Machine Co.—27 Jan. 1910; UK. 13,086, 3 June 1909. Typewriter carriage feed. 3.

656. Silent Writing Machine Co.—27 Jan. 1910; UK. 13,168, 4 June 1909. Typewriter escapement mechanism. 4.

657. Sectional Box Co.—12 March 1910. Boxes or cases of the knock down type. 1.

658. Gayley, J.—27 Jan. 1910; UK. 13,555, 9 June 1909. Drying air by refrigeration, especially for blast furnaces. 1.

659. W. R. Sykes Interlocking Signal Co. & Sykes, W. R.—1 Feb. 1910; UK. 16,446, 14 July 1909. Railway signals on Sykes' lock and block electric system arranged for cancelling signals and restoring instruments to normal conditions. 3.

660. Tyer & Co.—1 Feb. 1910. Railway signalling with automatic indication on distant instrument that a train has entered a block; applicable to Tyre's one wire, three position needle block instrument. 1.

661. Coryton, R. W.—8 July 1910. Eri silk and other pierced cocoons are turned inside out and cleaned, preparatory to boiling, etc. 1.

662. Wolff, M. M.—28 Jan. 1910. Blind and similar furniture with slats and rollers. 4.

663. Farnham, R. V.—Gas producers.

664. Neu, O., & Brandes, A.—20 Jan. 1910; UK. 14,740, 23 June 1909. Feed water for steam boilers is caused to flow over metal and exposed to light in described apparatus. 1.

665. Sharp, P.—20 Jan. 1910; UK. 26,939, 19 Nov. 1909. Spinning, rove stop motions. 5.

666. Lyon, G. A., & Wilson, A.—20 Jan. 1910; UK. 13,944, 14 June 1909. Wheel tyre non-skidding attachment consisting of a ring formed from bent wire or bar metal. 4.

667. Bandfield, W. E.—20 Jan. 1910; UK. 1009, 15 Jan. 1909. Clip attachment for securing telegraph and other wires to insulators. 2.

668. Sheffield, G. H., & Twinberrow, J. D.—25 June 1910. Railway vehicle screw couplings. 2.

669. Brown, S. G.—12 Feb. 1910; UK. 11,135, 22 May 1908. Telephonic and telegraphic transmission and reception system utilizing conducting spaces of small or molecular dimensions to amplify signals. 1.

670. Bettington, C. A.—9 Feb. 1910; UK. 13,960, 14 June 1909. Steam generators, details of the water tube type. 2.

671. Kuhn, E. W.—25 June 1910. Beverages of the nature of beer prepared by fermenting diluted grape or raisin juices with additions of hops, malts, etc.

672. Maynard, F. H.—Husking machine.

673. Donovan, G. O.—21 Feb. 1910; UK. 13,590, 10 June 1909. Electric starting and regulating switches for small current motors. 4.

674. Nehalchand Detaram Adwani.—18 July 1910. Ticket system for train working. 4.

675. Kershaw, A. G., Saxby & Farmer, Ld., Wheatley, W. G., Blair, W. G., & Saxby & Farmer (India), Ld.—23 April 1910. Railway point and signal electro-mechanical interlocking appliances. 4.

676. Jenkins, C. F.—1 Feb. 1910; UK. 10,179, 29 April 1909. Tube making machinery for spirally winding strip. 5.

677. Jenkins, C. F.—1 Feb. 1910; UK. 14,738, 23 June 1909. End closing machine for tubes, especially applicable to paper bottles. 11.

678. Wolle, R.—16 March 1910; UK. 8523, 16 April 1908. Reinforced concrete poles or masts for electric conductors, etc. 1.

679. Griffith, W. M., & Nethersole, N.—7 Nov. 1910. Sluice gates or regulating shutters of large span with strengthening means. 6.

680. Dingwall, W. G.—11 March 1910. Tea plucking machine.

681. Axle Lubricating Co.—1 Feb. 1910; UK. 18,971, 9 Sept. 1908. Lubricating wick for railway axles. 2.

682. Crawford, A. A.—21 April 1910. Belt drive for railway axle driven dynamos, with multiple belts, tensioning devices and lubrication of jockey pully. 2.

683. De Brunner, W. E.—Aëronautics.

684. Jones, T. G.—8 July 1910. Latrine with stone foot rests and deflector. 1.

685. Mono Service Vessels, Ld.—25 June 1910; UK. 28,472, 31 Dec. 1908. Paper vessels specially applicable for milk delivery, machinery for making. 3.

686. Ramage, A. S.—27 Jan. 1910; UK. 27,806, 29 Nov. 1909. Iron ore is reduced to sponge by a direct process, the sponge is electrolytically refined and then melted with oxidising materials to remove occluded hydrogen and, in some cases, to introduce alloying metal.

687. Howden & Co., J., & Hume, J. H.—27 Jan. 1910; UK. [illegible], 28 Dec. 1909. Locomotive and other furnaces with forced draft controlled by the furnace doors. 1.

688. Wanthoz, H.—16 April 1910; UK. 23,058, 9 Oct. 1909. Oil vapour lamp with vaporizer in a muffle of refractory material placed inside the mantle. 1.

689. Bendle, S., Smith, D. I., & Thorne, T. B. H.—27 April 1910; UK. 4,231, 25 Feb. 1908. Beverage with a wine basis and additions of albuminous or protein bodies, etc.

690. Boiler Scalers, Ld., Gilman, F., & Clements, G. F.—Steam generators.

691. Trainor, J. C.—8 Feb. 1910. Elevator of endless bucket type and fittings for unloading coal from ships. 1.

692. Davidson, S. C.—27 April 1910; UK. 692, 11 Jan. 1909. Tea rolling machines, improvements on the reciprocating and rotary table machines described in No. 361 of 1895 and Nos. 172 and 379 of 1896. 4.

693. Osborn, F. C.—8 Feb. 1910; UK. 19,028, 25 Nov. 1909. Tubes made by spirally winding and cementing strip of paper, etc. 7.

694. Watson, C.—16 Feb. 1910; UK. 6083, 13 March 1909. Railway vehicle central buffing and draw gear with means for preventing turning. 1.

695. Gare, T.—8 Feb. 1910; UK. 15,616, 8 July 1907. India-rubber goods prepared from waste material as described in No. 32 of 1909 by rendering the process continuous. 1.

1910.

1. Stiles, N. R.—3 Aug. 1910; UK. 763, 12 Jan. 1909. Automatic delivery of cigarettes or other articles. 3.

2 Sowill, H.—11 Feb. 1910; UK. 6621, 19 March 1909. Bracket device for suspending bird cages, flower pots, etc. 1.

3. Monotype Machine (Colonial Patents) Syndicate, Ld.—24 Sept. 1910; UK. 12,617, 28 May 1909. Type casting machine with adjustments for producing low quads or spaces and for special matrices. 3.

4. Halliday, O.—3 Aug. 1910; UK. 20,566, 8 Sept. 1909. Rice and grain hulling machine with revolving cone, water jacketed for cooling. 2.

5. Angus, A. R.—2 Feb. 1912. Railway signalling on and between trains and application of brakes by electric connections. 21.

6. Reid, T.—25 June 1910; UK. 10,206, 29 April 1909. Slipway and traverser arrangements for ships, etc. 4.

7. Kinney, J. R.—21 April 1910; UK. 22,422, 1 Oct. 1909. Rotary engines of the crescent chamber type. 4.

8. Stock, R.—10 Feb. 1910; UK. 26,207, 12 Nov. 1909. Motor ploughs. 2.

9. Roberts, D., & Young, J. W.—16 Feb. 1910; UK. 17,846, 31 July 1909. Oil engines with compression blocks in a groove or recess in the vaporizer. 1.

10. Kuess, V. J.—9 June 1910. Paper pulp manufactured from coir of cocoanuts and the like, by drying, disintegrating and digesting.

11. Forstmann, C.—4 May 1910. Clip or fastening for corrugated sheets for roofs. 1.

12. Kanhia Lal.—Grinding mill.

13. Jost, C.—10 Aug. 1910; UK. 53, 1 Jan. 1910. Air cooling device of porous earthenware or other material with fan or other air mover; control of water. 1.

14. Jenkins, C. F.—23 Feb. 1910; UK. 24,925, 29 Oct. 1909. Spirally wound paper and like receptacles and their closure. 12.

15. Mahboobalum, K. S.—4 April 1910. Water lift of the Persian wheel type. 2.

16. Mahkam Singh & Son.—9 Aug. 1910. Harmonium of folding portable type. 1.

17. Glaser, C., & Muller, G. J.—27 April 1910. Salt purification process involving addition of reagents as precipitants, etc., to remove all bodies except sodium chloride. 1.

18. Woods, M., & Gilbert, T. J.—16 April 1910. Railway and tramway rail dressing machinery with milling cutters and adjustments for irregular track. 8.

19. Swinney, G. H.—8 March 1910. Measuring valve or flush with main valve controlled by pressure in a chamber having a subsidiary release valve and a bye-pass to the main. 1.

20. Nobel's Explosives Co., Ld.—11 April 1910. Explosive consisting of blasting gelatine with oxidising additions to prevent generation of carbonic oxide by the wrapper.

21. Linley, A. V., Owensmith, W. H., & Edwards, J.—26 July 1910; UK. 18,580, 12 Aug. 1909. Lamp burner for petroleum, etc., with wick in a cup or chamber. 1.

22. Lumiere, L.—3 Aug. 1910; UK. 11,015, 10 May 1909. Diaphragms for telephones, microphones, talking machines and other acoustic instruments consisting of a radially ridged plate. 2.

23. Scherl, R., & Frohilch, P.—24 Sept. 1910; UK. 27,590, 26 Nov. 1909. Gyroscopic mechanism for unstable bodies with application of addtional forces depending on precessional speed; improvements on No. 498 of 1908.

24. Rincker, F. G. C., & Wolter, L.—5 April 1910; UK. 16,027, 28 July 1908. Gas producer using tar or oil with steam to drive the residual gas down through the fuel. 1.

25. Bailey, J. N.—5 April 1910; UK. 3450, 12 Feb. 1909. Pneumatic tyre, etc., sealing compositions containing mica or other flaky material; also balls, etc., in tube to spread this or other composition.

26. Clancy Metals Process Co.—1 March 1910. Ore treatment process using solutions of thio-cyanates and an oxidiser for extracting precious metals.

27. Hoyle, W. H., & Barker, T.—20 Sept. 1910; UK. 11,887, 20 May 1909. Suction appliances and snick plate attachments to winding, doubling, gassing, etc., frames. Improvements on No. 270 of 1906. 2.

28. Badische Anilin & Soda Fabrik.—4 March 1910; UK. 10,465, 3 May 1909. Nitrogen oxides are absorbed from gaseous mixtures by a spray of milk of lime or other absorbent in a fine state of division.

29. Fisher, W.—28 Nov. 1910; UK. 23,544, 18 Nov. 1907. Rotary engines of the annular chamber type. 4.

30. Cotton, F.—26 Feb. 1910; UK. 16,554, 18 Jan. 1909. Steam boiler furnaces of shaft or producer type, blown with steam and air. 2.

31. Fessenden, R. A.—26 Feb. 1910; UK. 28,577, 7 Dec. 1909. Sun's heat utilised by absorption in coloured liquid of low boiling point in glass covered tank; the vapour is used in turbines for generating electricity or working hydraulic storage 1.

32. Diamant, H.—26 Feb. 1910; UK. 27,376, 5 Aug. 1908. Luminous projections, visible in full light, are effected on a special screen. 1.

33. Earl, S. J.—26 Feb. 1910; UK. 29,572, 17 Dec. 1909. Dust laying composition for roads consisting of asphalt, soap and starch, prepared as described.

34. Farnsworth, W. W.—7 April 1910. Cotton picking machine with pneumatic suction and mechanical picker nozzles. 2.

35. Herbert, F.—24 Feb. 1910. Pipe foundry plant arranged for continuous work. 3.

36. Still, W. M., & Adamson, A. G.—26 July 1910; UK. 25,549, 26 Nov. 1908. Incandescent mantle manufacture; the fabric is steamed, impregnated with salt solutions, dried and treated with gases, with or without steam, to precipitate the oxides. 1.

37. Senssenbrenner, C.—5 April 1910. Ice-making apparatus of the ammonia absorption type, combined evaporator and condenser. 1.

38. Robertson, P. L.—UK. 11,490, 14 May 1909. Screw blank heading and nicking machine for screws as described in No. 626 of 1909. 1.

39. Oates, R. J. W.—25 April 1910; UK. 11,784, 5 Aug. 1909. Rope clips for haulage with a cam operated jaw, sliding in a dovetail, and automatically operated. 1.

40. Hydrocarbon Converter Co.—4 March 1910; UK. 29,029, 11 Dec. 1909. Oil gas producer using heavy oil spray and heated air. 6.

41. Westhead, C. G.—19 March 1910. Composition of pipe clay, French chalk, lead oxide, zinc oxide, gelatine, spirit, alum and blue for dressing leather and textiles.

42. Price, A. B.—30 Aug. 1910. Mixing and shaking apparatus for concrete, etc., with wheels or rails of irregular form, and with sieve feed. 2.

43 Reid, A. T., & Riekie, J.—30 Aug. 1910; UK. 22,067, 19 Oct. 1908. Spring wheels with radially disposed helical springs between inner and outer rim, or between rim and hub. 4.

44. McLennan, A.—3 March 1910; UK. 9870, 26 April 1909. Leather is treated to impregnate it with india-rubber.

45. Richardson, E., & Marshall, J. T.—1 June 1910; UK. 20,911, 3 Oct. 1908. Piston and slide valves for locomotives, steam and other engines with central steam cavity and auxiliary exhaust passages. 1.

46. Armstrong, E.—30 Aug. 1910; UK. 3988, 18 Feb. 1909. Files, rasps, etc., with teeth disposed in curved lines. 1.

47. Brown, K. M. & H.—20 Sept. 1910; UK. 18,996, 10 Sept. 1908. Railway electric block signalling with automatic control of train; improvements on Nos. 603 and 608 of 1907. 11.

48. Cook, J. N.—30 Aug. 1910. Pipes, etc., for smokers, with moisture catching devices. 1.

49. Groeling, A. V.—2 Sept. 1910; UK 30.229, 24 Dec. 1909. Natural or artificial burning gases are treated under pressure by absorption and cooling processes for storage, etc. 3.

50. Spalding, G.—27 April 1910. Plough or tilling machine with rotary, concave discs. 2.

51. Stokes, F. W. S.—14 March 1910; UK. 15,374, 1 July 1909. Weir gates are lifted and locked by a travelling carriage device. 6.

52. Powell Wood Process Co. (India), Ld.—5 April 1910. Wood is treated for preservation, etc., by impregnation with sugar solutions mixed with other bodies such as lime, lead acetate, arsenic, creosotes, boracic acid, etc., and dried or heated.

53. Oates, R. J. W.—20 April 1910. Wedge or key for railway chairs, etc., of sheet metal and spring box section. 1.

54. Desai, A. S.—Wire.

55. Mild[illegible] W. H.—10 March 1910; UK. 23,571, 4 Nov. 1908. Safety valve and stopper combined for cans, etc., containing oil, etc. 1.

56. Trott, T.—30 Aug. 1910; UK. 5542, 8 March 1909. Sewing machine with adjustments for the presser foot to permit darning. 1.

57. Gresham, H. E.—30 Aug. 1910; UK. 4199, 25 Feb. 1908. Injector with means to permit steam to escape at starting. 2.

58. Gabillard, L.—2 Sept. 1910; UK. 1510, 20 Jan. 1910. Sand blast appliances for cleaning buildings, ships, rails, etc. 3.

59. Mitchell, G. A., A. J. & E. E.—30 March 1910; UK. 9477, 1 May 1908. Asphalt mixture and its preparation for paving road, etc.

60. Palmer, E. R.—23 March 1910. Latrine flushing arrangements of pipes and tank. 1.

61. Marshall, D.—16 June 1910; UK. 23,859, 6 Nov. 1908. Valves for inflating tyres with two or more air chambers, one being in use and another in reserve. 1.

62. Douglas, N. S.—23 Sept. 1910. Railway rail joints with filling between rail ends. 1.

63. Benn, H. H., Ransom, P. A., Buck, G. F., & The Unbreakable Pulley and Mill Gearing Co., Ld.—2 Sept. 1910; UK. 8993, 16 April 1909. Friction clutch of the toggle actuated type arranged for ready access. 2.

64. Badische Anilin & Soda Fabrik.—2 Aug. 1910; UK. 11,274, 12 May 1909. Nitrates and nitric acid are produced from nitrites, by treating the latter with nitric acid adding oxygen to the evolved gases, and absorbing the product.

65. Badische Anilin & Soda Fabrik.—2 Aug. 1910; UK. 30,502, 30 Dec. 1909. Nitrates are prepared from nitrites with the nitric acid produced by the process described in No. 64 of 1910.

66. Badische Anilin & Soda Fabrik.—2 Aug. 1910; UK. 30,503, 30 Dec. 1909. Nitrous acid is removed from solutions under reduced pressure or in the form of spray.

67. Ross, Sir C. H. A. F. L.—7 Feb. 1911; UK. 1610, 21 Jan. 1910. Firearms of the magazine automatic type. 11.

68. Ross, Sir C. H. A. F. L.—26 Nov. 1910; UK. 1238, 17 Jan. 1910. Bullet with tapered collapsible hollow tip. 1.

69. Fox, F. H., & Bowchier, F. J.—2 Sept. 1910; UK. 14,214, 17 June 1909. Putties of curved form with selvedge edges are made by winding a straight puttee on model leg and heating. 1.

70. Weiser, J.—2 Sept. 1910; UK. 18,120, 5 Aug. 1909. Paraffin is separated from paraffin "butter," from the filter presses in perforated tubes to which the butter is transferred after partial liquefaction by heating or agitation. 1.

71. MacBean, D. W.—9 April 1910. Talking machine horns or trumpets made from gourds. 1.

72. Arbuckle, A. J.—2 Sept. 1910. Filtering and settling apparatus for ore slimes, etc., with continuous settlement on cones and removal by scrapers; improvements on No. 562 of 1909. 1.

73. Société Anonyme "La Photographie des couleurs," Sury, J., & Bastyns, E.—Photography.

74. Société Anonyme "La Photographie des couleurs," Sury, J., & Bastyns, E.—28 Nov. 1910; UK. 21,281, 17 Sept. 1909. Photographic three colour printing process.

75. Jones, W. G. Y.—2 Sept. 1910; UK. 22,807, 6 Oct. 1909. Pneumatic tyres, arrangement of canvas, etc., reinforcement. 1.

76. Yarrow & Co. (Bolton), Ld., & Yarrow, M.—2 Sept. 1910; UK. 27,354, 11 Dec. 1907. Pipe, etc., moulding machines with means for equalizing the pressure on the clay. 3.

77. J. Stone & Co., Ld., & Darker, A. H.—3 May 1910; UK. 7424, 27 March 1909. Electric secondary batteries, construction of the plates and their supports. 1

78. Westmoreland, H. A.—20 Sept. 1910; UK. 8638 10 April 1909. Fencing droppers and standards of rolled V-section with recessed edges. 1.

79. Worswick, A.—2 Sept. 1910; UK. 5525, 8 March 1909. Propellors with blades partly plane and partly convex on the same or on separate bosses. 1.

80. Rangachari, M. R.—Food.

81. Walker, G.—6 April 1910. Furnace air bridges with removable sections for boilers. 1.

82. Aiyar, T. V. Sundaram.—6 May 1910. Typewriter keyboard for Tamil character. 6.

83. Hoosain Buksh.—26 Nov. 1910. Water lift worked by hand with buckets connected to counterbalancing trucks on inclined planes filled alternately with water. 1.

84. Godrej, P. B.—6 Sept. 1910. Safes with centrally thickened or dish plates to give flush surfaces inside the side flanges. 1.

85. Godrej, P. B.—17 Sept. 1910. Safe insulating briquettes as described in No. 363 of 1909 with addition of pulpy material. Also insulation for lock case.

86. Morrow, W. J. A.—22 April 1910. Pipes for heating water placed in *chulas* or fire places. 1.

87. Sharpe, A. E. W.—2 May 1910. Railway journal bearing with anti-friction linings and detachable ends. 2.

88. Notcutt, W. P.—31 March 1910; UK. 15,321, 13 June 1909. File cutting machine making curved teeth. 3.

89. Rawlings, J. J., Handcock, H. W., & Dykes, A. H.—31 March 1910; UK. 24,348, 12 Nov. 1908. Electric insulated conductors with metal sheathing of tined or soldered metal, lapped round two or more times. 1.

90. Steele, G. H. B., Boulter, A. H., & Hargreaves, J.—31 March 1910. Spark arrester for locomotives, etc., with rotary fan, driven by exhaust steam, baffles and spark collecting passage. 1.

91. Kuhl, H.—2 Sept. 1910. Gypsum is added to, or produced in, cements such as Portland, blast furnace slag and lime cements at any stage.

92. Ross, A.—20 April 1910; UK. 3593, 13 Feb. 1909. Steam boilers with water feeding and circulating devices. 2.

93. Schmidt, W., & Thomsen, P.—2 Sept. 1910; UK. 276, 5 Jan. 1910. Steam superheaters of tubular types for locomotives 2.

94. Spencer, A.—15 Nov. 1910; UK. 26,864, 10 Dec. 1908. Railway central buffer and drawgear, arrangement of springs. 1.

95. Crouch, J. P., & Etchells, J.—12 July 1910; UK. 25,844, 30 Nov. 1908. Electric switching and distributing system for train lighting, etc., arranged to throw the generators and accumulators in and out of circuit as required by speed, voltage, etc. 2.

96. Crouch, J. P., & Etchells, J.—12 July 1910; UK. 27,242, 15 Dec. 1908. Similar to No. 95 above. 3.

97. Donner, H.—Liquids.

98. Société Anonyme Electrometallurgique Procedes Paul Girod.—22 Aug. 1911; UK. 26,588, 16 Nov. 1909. Steel manufacture. In Bessemer, openhearth, eletric and other oxidizing processes, the bath is cooled and then heated against one or more times to allow gases to escape. The additions and conduct of refining are also described.

99. Naylor, A. V.—6 Sept. 1910. Railway vehicle coupling with coupling lever and tightening device worked from the side of the vehicle. 2.

100. Crutchley, W. H., & Boucher, A. E.—14 April 1910; UK. 27,088, 14 Dec. 1908. Slate pencils are made from a mixture of slate dust, silicate of soda and disinfectant together with steatite and are impregnated or coated with bitter aloes.

101. Syamala.—Water-lift.

102. Firman, W. G.—20 Sept. 1910. Feeding hopper for tea, grain, etc., with sides vibrated to an adjustable extent. 1.

103. Bowles, G. B.—11 April 1910; UK. 18,393, 8 June 1909. Railway brake mechanism with automatic locking devices in conjunction with the adjustments for wear as described in No. 284 of 1908. 2.

104. Humphris, F.—11 April 1910; UK. 22,535, 23 Oct. 1908. Gearing with helmet shaped teeth and cup shaped recesses for spur and bevel, etc., wheels. 8.

105. Wildeblood, H. S.—Aëronautics.

106. George, J.—Windmills.

107. Soutar, A.—8 April 1910. Securing bobbin driver crown wheels by stud and groove in roving frames. 1.

108. Neill, J.—7 April 1910; UK. 6444, 18 March 1909. Files made from blanks having a hard surface and softer body.

109. Neill, J.—7 April 1910; UK. 6913, 23 March 1909. File cutting tool with curved edge. 1.

110. Notcutt, W. P.—7 April 1910; UK. 15,322, 30 June 1909. File grinding or sharpening machine for files with curved teeth. 3.

111. Brennan, L.—14 Sept. 1910; UK. 26,034, 10 Nov. 1909. Gyrostatic apparatus for mono-railways, etc. Reference is made to No. 78 of 1905. 7.

112. Brennan, L.—14 Sept. 1910; UK. 27,593, 26 Nov. 1909. Monorail vehicles or supports or legs worked in connection with the brakes. 3.

113. Brennan, L.—14 Sept. 1910; UK. 29,391, 15 Dec. 1909. Gyrostatic apparatus for mono-railways, etc. Reference is made to No. 78 of 1905. 7.

114. Brennan, L.—14 Sept. 1910; UK. 29,579, 17 Dec. 1909. Monorail vehicle suspension and running gear and brakes. 2.

115. Whiteaway, A., & Charles Macintosh & Co., Ld.—14 Sept. 1910; UK. 24,338, 23 Oct. 1909. Pneumatic tyre protector of split tube with overlapping edges, made of rubbered canvas to be used between the tube and cover. 1.

116. American Box Ball Co.—26 Nov. 1910; UK. 24,072, 20 Oct. 1909. Game of the skittle alley type with means for resetting the pins. 5.

117. Calcutta Co., Ld.—14 Sept. 1910. Carburettor for making oil gas, details of switch worked by gasholder, oil feed, drainage, etc. 1.

118. Bergtheil, A., & Cousans, L. B.—20 April 1910; UK. 25,082, 21 Nov. 1908. Air is moistened by passing over a helix of cuscus, etc., partly immersed in liquid and caused to revolve by the draught. 1.

119. Sayer, R. C.—20 April 1910; UK. 23,000, 29 Oct. 1908. Traffic system for rail, road and water continuous circulation on main lines and local feeders with vehicles or boats which couple or uncouple automatically. 2.

120. Wilderspin, E. A.—27 June 1910. Brazing cast iron and other metals with a flux of borax and boracic acid and additions of powered iron.

121. Lehmann, F.—29 July 1910; UK. 26,231, 12 Nov. 1909. Glue made from seaweed by treatment with acid, aglutinant or astringent.

122. Peart, J.—27 April 1910; UK. 281, 5 Jan. 1909. Railway draw gear, continuous or otherwise, with springs arranged to give first pull near centres of the vehicles. 2.

123. Fitzgerald-Lee, J.—Road vehicle with single wheel for animal traction. 1.

124. Arbuckle, A. J.—20 Sept. 1910. Ore treatment plant for mixed sands and slimes, using apparatus as described in Nos. 86, 561 and 562 of 1909 and No. 72 of 1910. 2.

125. Midas, Ld.—6 Oct. 1910; UK. 7088, 24 March 1909. Polishing or bronzing leather, etc., with special composition of metallic powder and wax, kerosine, turpentine, linseed oil, rosin, etc.

126. F. H. Schule, G. m. b. H. (Ld.)—1 Aug. 1910. Paddy steaming or cooking machines with discharge continuously or at intervals. 1.

127. Cox, C. T.—Railway signalling.

128. Stark, E. G.—14 April 1910; UK. 3757, 15 Feb. 1910. Vegetable fibres, known as cotton silks, are treated with solvents to remove their coating and their brittleness to facilitate spinning, bleaching and dyeing.

129. Pierpoint, R. G.—14 April 1910; UK. 13,152, 20 June 1908. Loom picker made of folded hide. 1.

130. Walker, C. B.—25 April 1910; UK. 6916, 23 March 1909. Electric generating and storage plant with automatic regulation of starting, stopping, and voltage. 1.

131. Handcock, H. W., Dykes, A. H., Rawlings, J. J., & Dieselhorst, W.—18 April 1910; UK. 7187, 25 March 1909. Electric conductors with metal sheathing as described in No. 89 of 1910, means for applying and soldering the casing. 1.

132. Killen, E. B.—27 Sept. 1910; UK. 10,640, 16 May 1908. Wheel rims with inward flanges made without welding, turning or spinning by stamping and rolling processes from steel plate. Reference is made to No. 91 of 1907 and No. 600 of 1909. 1.

133. Killen, E. B.—20 Sept. 1910; UK. 16,839, 11 Aug. 1908. Wheel construction with detachable rims or tyres. 4.

134. White, E. B.—31 May 1910; UK. 21,127, 15 Sept. 1909. Locomotive washing and refilling apparatus; improvements on No. 26 of 1909. 1.

135. Hutchinson, T. J., & United Railway and Trading Co., Ld.—31 May 1910; UK. 20,266, 11 Sept. 1907. Bagasse is treated to remove paper making impurities with mild solutions of alkalies in one or more stages.

136. Porteous, P. G., & Thompson, R. D.—24 Sept. 1910; UK. 5574, 5 March 1910. Railway vehicle couplings with spring supports. 1.

137. Spence, G. A.—20 Sept. 1910. Combing or carding machine for jute, etc., arranged to deal with the roots. 1.

138. Sandeman, J. A.—11 May 1910. Driers for tea, etc., of revolving drum type. 4.

139. Fitzgerald-Lee, J.—4 Nov. 1910. Tent of umbrella type with doorway. 1.

140. West, E. A.—31 May 1910. Baling press for hay, fodder, etc., with double press box, rams and lashing plates. The press is mounted on transport wheels. 1.

141. Pavia, N., & Casalis, G.—27 April 1910; UK. 24,002, 19 Oct. 1909. Railway vehicle couplings of the automatic type. 2.

142. Schoop, M. U.—21 April 1910. Metal coatings are applied by spraying or projecting liquid or finely divided metal.

143. Hubbard, A. R.—21 April 1910. Wheels of spring type with articulated tread supported by radial volute springs. 2.

144. Cooke, T. A.—20 Sept. 1910; UK. 2781, 4 Feb. 1910. Corner joints for sheet metal cash boxes, etc. 1.

145. Weiser, J.—UK. 14,251, 7 June 1909. Asphalt and coke are made in the cracking process of treating petroleum, stearine, tar, etc., by heating the stills, etc., with metal or other fusible material as a bath or otherwise. 1.

146. Martin, J.—20 Sept. 1910; UK. 26,864, 19 Nov. 1909. Loom self-lubricating picker spindle. 1.

147. Lamp'l, R. & P. J.—9 Jan. 1911; UK. 16,636, 16 July 1909. Printing in colours or inks selected to render reproduction difficult or impossible.

148. Malloch, J. M.—Weaving.

149. Firman, W. G.—20 Sept. 1910 Tea breaker with V-shaped or other knives revolving in a casing 1.

150. Taylor, S.—20 Oct, 1910. Jute decorticating machine specially adapted for the root which is treated with soap and water. 2.

151. Espino, A. M. d.—24 Sept. 1910; UK. 6269, 12 March 1910. Scale removers for tubes and plates of boilers. 1.

152. Dondey, A., & Testro, J. C.—28 April 1910. Filter with cylindrical holders and strainers, using paper pulp as the medium. 2.

153. Nagojee Rau, C.—Music.

154. Stridsberger, R. K.—3 May 1910. Fire-arms with electric search light or sighting attachment. 1.

155. Autolock Safety Cock & Bolt Co., Ld.—3 May 1910; UK. 16,078, 9 July 1909. Sliding bolt with catch in handle to hold the bolt open or closed. 1.

156. Hawkins, C. A. B. P., & Ogilvie, B.—29 June 1910. Aëroplanes with longitudinally hinged side planes connected to work in opposite directions. 1.

157. Young, D. H.—3 May 1910. Jug for milk, etc., with ventilated lid and bottom. 1.

158. Yeo, F. C., Half, W. M. & Coskar, T. A.—3 May 1910; UK. 25,501, 25 Nov. 1908. Aërating apparatus with separate saturator and pump and means for delivering measured quantities of aërated liquids. 2.

159. Surgia, O. S.—25 Oct. 1910. Gin rollers with built up wooden discs arranged to present the grain on edge. 1.

160. Skelton, A. W. C.—14 Feb. 1911. Railway vehicle automatic couplings. 1

161. D'Cruz, J. E. A., & Siddappah, B.—Latrines.

162. Ruthenburg, M.—3 May 1910; UK. 6529, 18 March 1909. Manganese and chrome ores are treated with reducing gases at temperature sufficient to reduce the iron in the low grade portions to facilitate treatment in magnetic separators.

163. W. M. Still & Sons, Ld., & Still, E. H.—26 July 1910; UK. 21,366, 18 Sept. 1909. Lamps of inverted incandescent type with burner nipple removable to facilitate cleaning. 1.

164. Badische Anilin & Soda Fabrik.—3 May 1910; UK. 20,129, 2 Sept. 1909. Electric arcs of long flame type are produced by modifying the circulation of air, etc. 1.

165. Payne, E. E. M., & Staynes, W. H.—20 Sept. 1910; UK. 6935, 23 March 1909. Water softening process using sodium hydrate and phosphates; recovery of the phosphate.

166. Wolle, R.—28 April 1910; UK. 1635, 21 Jan. 1910. Railway sleepers of reinforced concrete with resilient rail seats. 1.

167. Rumeley, E. A.—Gas and oil engines.

168. Porritt, M. H.—Bricks.

169. Phillips, G.—Tea.

170. Watson, J. A. M.—27 Sept. 1910. Water lift as described in No. 415 of 1909 using exhaust reservoir, arrangement of valves. 1.

171. Watson, J. A. M.—27 Sept. 1910. Railway signal token clip holder for token exchange apparatus. 1.

172. Holmes, J. L., & Wagstaff, E. W.—23 Aug. 1910. Husk from paddy is used for polishing, as an addition to paint, or for electric insulation.

173. **Metcalfe, G.**—26 May 1910. Puncture proof material for tyres, etc., made by heating and compressing a mixture of fibrous material and resin.

174.* **Autolock Safety Cock & Bolt Co., Ld.**—18 May 1910; UK. 14,974, 26 June 1909. Plug cock or valve with locking device. 1.

175. **Clifford, W.**—12 May 1910; UK. 17,040, 13 Aug. 1908. Ticket printing, punching and delivering machine. 1.

176. **Addis, A. W. C.**—Wells.

177. **Roberts, E., & Gibson, A. H.**—16 Nov. 1910. Centrifugal separators with means for cleaning the basket. 2.

178. **Arbuckle, A. J.**—9 Nov. 1910. Ore or pulp treating apparatus with the lifting conveyor of screw type in sections. 2.

179. **Société Anonyme Electrometallurgique Procedes Paul Girod.**—9 Nov. 1910; UK. 3421, 11 Feb. 1910. Electric polyphase currents are used for electric furnaces by interposing transformers. 1.

180. **Herendeen, C.**—29 July 1910. Flour, grits, meal, etc., is steamed to disrupt the starch cells, flaked between cold rolls, dried and ground; the product may be mixed with ordinary flour.

181. **Company Ld. for Exploitation of Inventions by Stephen Benko.**—24 May 1910. Electric batteries with carbon electrodes, construction of supports. 2.

182. **Humphrey, H. A.**—23 May 1910; UK. 12,565, 11 June 1908. Air and gas compressing apparatus with pulsating water column worked by direct explosion. Reference is made to Nos. 272, 273 and 274 of 1908. 2.

183. **Davidson, S. C.**—23 May 1910; UK. 27,105, 22 Nov. 1909. Tea rolling machine with twin or triplicated containers and blades; improvements on No. 692 of 1909. 2.

184. **Davidson, S. C.**—23 May 1910; UK. 27,106, 22 Nov. 1909. Tea rolling machine with twin or triplicated containers and blades; improvements on No. 692 of 1909. 2.

185. **Shelley, A. D. G.**—2 Sept. 1910. Tatties and other evaporating screens are kept moist by percolation from tubes, etc., through wicks or the like. 1.

186. **Mandal, R. C., & Nandi, R. C.**—Cooking pots.

187. **Newman, G., & Blackall, A. T.**—20 June 1910; UK. 26,413, 7 Dec. 1908. Railway signal wires with springs interpolated. 1.

188. **Mallick, I. M.**—1 July 1910. Tiffin carrier with lamp or other heating appliances, adapted for cooking and other purposes. 1.

189. **Boyd, J., Phillips, D., and James Scott & Sons, Ld.**—9 June 1910; UK. 28,394, 30 Dec. 1908. Spinning machinery, driving band tensioning devices. 2.

190. **Aitken, T.**—29 July 1910; UK. 28,331, 29 Dec. 1908. Liquid distributing or tarring appliance for roads with compressed air fittings, motor, etc. 4.

191. **Wood, J. E.**—12 July 1910; UK. 4285, 22 Feb. 1909. Feed water heater and purifier for steam boilers. 1.

192. **Birkby, A. T. & F. E.**—15 Nov. 1910. Punkah pulley bushed with leather impregnated with graphite. 1.

193. **Hargreaves, G. W., R. & A.**—15 Nov. 1910; UK. 17,986, 27 Aug. 1908. Dust collecting and removing apparatus of the vacuum type for carding engines. 1.

150. Taylor, S.—20 Oct, 1910. Jute decorticating machine specially adapted for the root which is treated with soap and water. 2.

151. Espino, A. M. d.—24 Sept. 1910; UK. 6269, 12 March 1910. Scale removers for tubes and plates of boilers. 1.

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166. Wolle, R.—28 April 1910; UK. 1635, 21 Jan. 1910. Railway sleepers of reinforced concrete with resilient rail seats. 1.

167. Rumeley, E. A.—Gas and oil engines.

168. Porritt, M. H.—Bricks.

169. Phillips, G.—Tea.

170. Watson, J. A. M.—27 Sept. 1910. Water lift as described in No. 415 of 1903 using exhaust reservoir, arrangement of valves. 1.

171. Watson, J. A. M.—27 Sept. 1910. Railway signal token clip holder for token exchange apparatus. 1.

172. Holmes, J. L., & Wagstaff, E. W.—23 Aug. 1910. Husk from paddy is used for polishing, as an addition to paint, or for electric insulation.

215. Blewitt, R. F. J.—Bread-cutters.

216. Arya Factory.—5 Sept. 1910. Padlock with anti-picking device requiring complex movement to open. 1.

217. McCarthy, C. A.—2 June 1910. UK. 6054, 10 Mar. 1910. Clamps for ropes. 1.

218. Pachaiyappachariar, T. V.—16 Nov. 1910. Metal bar shaper. Improvement on No. 120 of 1897. 2.

219. Hawley, E., & Collier, A. H.—26 Nov. 1910; UK. 24,688, 27 Oct. 1909. Pneumatic tyre, sleeve to thread on inner tube to reinforce worn outer tube. 1.

220. Spencer, A.—9 Nov. 1910; UK. 24,327, 22 Oct. 1909. Railway, etc., buffers with double springs. 2.

221. Gardner, H. H.—26 Nov. 1910; UK. 8312, 6 April 1909. Moulds for cement concrete pipes. 1.

222. Erste Triester Reisschal Fabriks Aktiengesellschaft.—26 Nov. 1910; UK. 8203, 5 April 1910. Proteins are rendered soluble by treatment with per-salts.

223. Narain Singh.—Water-lift.

224. Molony, F. A.—Rail joint.

225. Duckett, J. & F. J.—Looms.

226. Sardar Ahmad.—Ploughs.

227. Smith, H. S.—16 June 1910; UK. 7433, 27 March 1909. Centrifugal apparatus for separating rubber from the latex. 1.

228. Walke, J. F.—21 Nov. 1910. Furnace for Lancashire boiler fired with oil and coal. 1.

229. Craig, A.—21 Nov. 1910; UK. 22,186, 20 Oct. 1908. Grain mills with adjusting devices for vertical grinding discs 2.

230. Brooke, R. G.—9 Jan. 1911; UK. 23,148, 11 Oct. 1909. Steam injectors, operation of overflow valves. 5.

231. Jackson, W.—29 July 1910. Tea, etc., drying apparatus with an automatic device to warn attendant when louvres or slats must be tilted. 1.

232. Lautour, W. B.—Tea.

233. Copley, N. B.—16 Aug. 1910. Graphic calculation of railway time-tables. 5.

234. Gare, T.—13 Feb. 1911; UK. 3112, 12 Feb. 1908. Rubber sheet manufacture and coating fabrics therewith. Improvement on No. 32 of 1909. 2.

235. Jones, J. F.—14 July 1910; UK. 5141, 1 March 1910. Cover or lid for cans, etc., closing by lever. 1.

236. Lancaster-Sutton, R.—Punkahs.

237. Fischer, A.—Drying.

238. Stock, R.—16 June 1910; UK. 8960, 13 April 1910. Steering gear for motor plough and arrangements for varying depth of furrow. 2.

239. Stock, R.—16 June 1910; UK. 9040, 14 April 1910. Steering gear for motor plough, similar to No. 238 of 1910. 1.

240. Philadelphia Lamp Manufacturing Co.—6 Dec. 1910; UK. 9401, 18 April 1910. Mantle burner for kerosine lamps. 1.

241. Barker, J. C.—6 Dec. 1910; UK. 11,969, 21 May 1909. Pneumatic tyre with cushion between inner and outer tubes. 1.

242. Wilkes, T.—6 Dec. 1910; UK. 5448, 6 March 1909. Trunks, portmanteaux, etc., of sheet metal covered with leather, etc. 1.

243. Fitton, F., & Milnes, E.—6 Dec. 1910; UK. 14,574, 22 June 1909. Tape measure for the game of bowls. 1.

244. Wohle, S.—5 Dec. 1910; UK. 23,348, 12 Oct. 1909. Refining hydrocarbon oils by treatment with alkaline and saline solutions with or without iodine or sulphuric acid.

245. Price-Campbell Cotton Picker Corporation.—12 Aug. 1910. Cotton picking machines with revolving spindles on an endless belt. 8.

246. Price-Campbell Cotton Picker Corporation.—12 Aug. 1910. Cotton harvesters, driving arrangements. 7.

247. Koopman, G. W. F.—12 Aug. 1910. Pump in which pistons moving in opposite directions are actuated by an oscillating lever and toothed wheel, working between the pistons. 1.

248. Perman, W. F.—21 Dec. 1910. Watertight joints for chimneys, etc., in corrugated iron roofs. 1.

249. Keatinge, A. E. F.—Polishing composition.

250. Keatinge, A. E. F.—Polishing composition.

251. Dixon, J., & Lawrence, J. C. F.—6 Dec. 1910. Aërating and bottling machine. 3.

252. Rooke, C. M. S. & G. A. L.—Gas producer.

253. Barlow, C.—28 June 1910. Shield for protecting the mechanism of weighing machines. 1.

254. Woods, M., Gilbert, G. W., Little, J.—6 March 1911. Stone dressing by means of tools having a high peripheral velocity. 4.

255. Hafeez Abdur Razack.—20 Oct. 1910. Puttee, tubular woven. 1.

256. Kahn, J., & Kane, T. H.—7 Feb. 1911; UK. 7729, 30 March 1910. Window frames constructed of metal in various forms. 2.

257. Marquart, L. C.—29 July 1910; UK. 7332, 26 March 1909. Fungicide for plants of copper lime sucrate.

258. Rawson, W. S.—5 July 1910. Burning magnesite at its critical temperature for production of cement.

259. Thorpe, W. B., & Thorpe Meter Syndicate, Ld.—8 March 1911; UK. 25,763, 28 Nov. 1908. Electrolytic device for switches, meters, etc. Improvement on No. 408 of 1909. 3.

260. Spinnerei & Weberei Steinen, A. G.—21 Dec. 1910; UK. 7424, 24 March 1910. Looms, automatic spool changing apparatus for looms. 5.

261. Kohler, A. M.—21 Dec 1910; UK 15,962, 27 July 1908. Electro-chemical process for cleaning metals by immersion in an alkaline solution in presence of aluminium alloys.

262. Dring, T. A.—30 June 1910; UK. 12,556, 27 May 1909. Aërial machine, without aërostat, with "vortex lifters" for propelling or steering. 1.

263. Peare Lal.—2 Dec. 1910. Padlock of lever lock type with sliding staple secured on both ends. 1.

264. Fessenden, R. A.—12 July 1910. Wireless signalling, receivers using electrostatically charged wire to produce signals. 1.

265. W. R. Sykes, Interlocking Signal Co., Ld., Sykes, W. R., & Tarrant, R. W.—12 July 1910; UK. 9880, 22 April 1910. Railway electric block signalling system and instruments employing successive impulses in a predetermined order. 7.

266. Macpherson, A.—9 July 1910; UK. 22,795, 27 Oct. 1908. Carburetted gas generator with automatic action. 1.

267. Dickson, C. A., & Burton-Jones, N. L.—30 July 1910. Diamond crossings with centrally pivoted rail or rails. 2.

268. Destefani, P.—21 Dec. 1910; UK. 8629, 9 April 1910. Lamps in which paraffin wax is pressed against a heated tube, melted, carried over into another receptacle and there burnt by means of a wick. 1.

269. Boorne, W. H.—4 Nov. 1910; UK. 7421, 27 March 1909. India-rubber stamps made from photographs by a hardened gelatine mould.

270. Keelan, D. H.—6 Jan. 1911. Interlocking point and siding lock keys with block instruments. 3.

271. Hall, J. W., & Baynes, C.—17 Jan. 1911; UK. 22,704, 25 Oct. 1908. Detachable rims for wheels. Reference made to No. 507 of 1909. 4.

272. Martin, C. W.—30 July 1910. Exchanging articles between train and station staff by means of net and discharging box. 1.

273. J. P. Karns Tunnelling Machine Co.—9 March 1911. Tunnel boring machine with rotary multiple cutter head. 4.

274. J. P. Karns Tunnelling Machine Co.—9 March 1911. Tunnel and shaft drilling machine with rotary and reciprocating motion of head. 6.

275. Wilkes, S. J. H. & G.—7 July 1910; UK. 27,296, 16 Dec. 1908. Lock nut with spring controlled ball engaging in the thread. 1.

276. Kestner, P.—6 October 1910.—Sugar manufacture by a continuous process of concentrating, cooling and crystallizing, avoiding excessive temperature. 2.

277. Hele-Shaw, H. S.—7 July 1910; UK. 12,574, 27 May 1909. Hydraulic multiple cylinder pump or motor. 6.

278. Newlands, B. E. R., & Parkinson, R. M.—29 July 1910; UK. 9176, 15 April 1910. Electrolyte for primary batteries consisting of dry mixtures of sodium sulphate or bisulphate, sulphuric acid and sodium or potassium bichromate. Improvement on No. 401 of 1909.

279. Nance, C. W.—11 Feb. 1911; UK. 29,552, 15 Dec. 1909. Vacuum pump, aspirator pattern. 2.

280. Nance, C. W.—29 July 1910; UK. 26,040, 10 Nov. 1909. Tanning rapidly *in vacuo.*

281. Kearton, G.—20 July 1910; UK. 23,392, 13 Oct. 1909. Spinning under clearer for drawing rollers. 3.

282. Fateh Mohamed Deura & Co.—Polo stick.

283. Yajnik, T. N.—18 April 1911. Forming letters and figures of many languages from the Vedic syllable. 1.

284. Ellis, A. E.—13 Jan. 1911; UK. 13,561, 9 June 1909. Spring wheels, constructed with springs and levers between inner and outer rim. 2.

285 Gulbaz Khan Lalbaz Khan.—28 Oct. 1910. Latrine and incinerator combined. 4.

286. **Arbuckle, A. J.**—9 Jan. 1911. Separating liquids from solids, specially in ore treating, by settlement with an adjustable blade to regulate the opening through which the settled material passes. 1.

287. **Denner-Meier, C. C.**—9 Jan. 1911; UK. 19,157, 20 Aug. 1909. Refining oils by treatment with wet and saturated steam.

288. **Société Anonyme Pour L'Exploitation des Procedes Westinghouse-Leblanc.**—20 March 1911; UK. 3727, 15 Feb. 1910. Rotary air pump for obtaining various degrees of vacuum in different vessels simultaneously. 1.

289. **Lilienthal, F. A., & Lauer, G.**—9 Jan. 1911; UK. 4980, 28 Feb. 1910. Mica is split into thin sheets by the aid of roller and suction devices. 1.

290. **Stock, G. J.**—9 Jan. 1911; UK. 12,212, 5 June 1908. Bessemer converters with heat economiser arranged for melting the charge. 4.

291. **Price, F. G. S.**—14 July 1910; UK. 18,242, 7 Aug. 1909. Concrete mixed with orbital and vibratory movement. 3.

292. **Smallwood, L. A.**—14 July 1910; UK. 14,815, 24 June 1909. Furnace linings and forms of refractory brick to be used in Lancashire and other similar types of boilers. 2.

293. **Smallwood, L. A.**—14 July 1910; UK. 14,812, 24 June 1909. Utilizing waste furnace gases to effect preliminary heating of metals or ores, to be subsequently passed on to the main furnace. 3.

294. **Pratap, M.**—Fire place.

295. **Albertini, C., & Prati, A.**—Railway sleeper.

296. **Hurrey, C. G.**—2 Sept. 1910. Motor propelled cane harvester. 1.

297. **Price-Campbell Cotton Picker Corporation**—29 Nov. 1910. Cotton pickers with arms on revolving drums. 17.

298. **Collard, A.**—24 Oct. 1910. Recovery of acetone, alcohol, ether, and the like from the air in silk, powder and photographic manufactories, by absorption. 3.

299. **Edwards, T.**—2 Sept. 1910. Dust prevention chambers in ore roasting furnaces. 1.

300. **Palmer, W. L.**—7 Jan 1911. Magnetic compass for surveying, with protoctor for plotting results. 1.

301. **Vacuum Specialty Manufacturing Co.**—21 July 1910; UK. 24,831, 28 Oct. 1909. Vacuum clearner of portable type, motor driven. 2.

302. **Potter, E. W.**—22 Aug. 1910. Loom automatic shedding motion. 2.

303. **Pavry, F. C.**—Dust bins.

304. **Société Pour L'Exploitation des Brevets D'Aiguillage Samaia.**—29 July 1910; UK. 8863, 12 April 1910. Tramway points worked from platform of car. 2.

305. **Dieffenbach, O., & Moldenhauer, W.**—17 Jan. 1911; UK. 7720, 30 March 1910. Hydrogen made from action of steam on comminuted carbon impregnated with alkali and the employment of alkaline silicates in the process.

306. **Dieffenbach, O., & Moldenhauer, W.**—20 March 1911; UK. 8734, 11 April 1910. Hydrogen made by the action of steam on carbon in the presence of an alkaline compound with the addition of lime for lowering the temperature of decomposition.

307. **Empire Cream Separator Co.**—20 March 1911. Rubber is separated from latex by means of centrifugal separators. 2.

308. Phillips, W. H.—Cooking appliances.

309. Bichler, L.—2 Sept. 1910; UK. 25,463, 11 Nov. 1909. Ice making machine of the absorption type. 1.

310. Madeley, J. W., & Richards, E. P.—6 Feb. 1911. Syphon method of raising mud or sludge from wells, catch-pits and the like. 1.

311. Tyer & Co., Ld.—3 Aug. 1910; UK. 11,045, 21 May 1908. Railway transfer apparatus for the staff or tablet system. 1.

312. Yusaf.—8 March 1911. Punkah pulling machine worked by a spring. 1.

313. Stark, E. G.—28 July 1910; UK. 13,220, 31 May 1910. Fibre decorticating, cleaning and carding process and means. 3.

314. Gresham, H. E.—25 Jan. 1911; UK. 24,461, 14 Nov. 1908. Piston rod for vacuum brake apparatus. 1.

315. W. M. Still & Sons, Ld., & Adamson, A. G.—31 Jan. 1911. Gas incandescent mantle fused on to its support to prevent breakage.

316. Leslie, J. C.—25 Jan. 1911; UK. 20,331, 6 Sept. 1909. Spinning machines with suspended spindles in ball bearings between flyer and wharve, so as to facilitate cleaning of frame. 2.

317. Serpek, O.—14 July 1911; UK. 12,601, 24 May 1910. Electric resistance furnaces and resistances for making aluminium nitride. 1.

318. Etrich, I.—25 Jan. 1911; UK 12,896, 27 May 1910. Spinning apparatus for piecing the rove. 3.

319. Island, J. S.—25 Jan. 1911. Ore treatment process producing soluble salts by pulverizing and treating with sulphuric and hydrochloric acid in nascent state. 1.

320. Wildeblood, H. S.—Aëronautics.

321. Sharafdin, A.—6 April 1911. Heat engine construction for combined fan and engine. 3.

322. Kerogas Co.—14 Jan. 1911. Spray burner for liquid hydrocarbons. 1.

323. English, T. M. S.—9 Aug. 1910; UK. 10,901, 3 May 1910. Mosquito larva trap. 2.

324. Codfree, E. G.—6 May 1911. Electro-mechanical selector for party-line telephones and telegraphs. 4.

325. Oppenheimer, M.—21 Oct. 1910. Rifle and gun carrier combined with bandolier. 3.

326. Jones, T. F. G.—1 Feb. 1911. Lid closing device for sanitary buckets, carts, etc. Improvement on No. 355 of 1907. 1.

327. DeDion Bouton (1907), Ld.—20 Jan. 1911; UK. 9338, 18 April 1910. Level indicator combined with hollow-spindled cock. 1.

328. Kjaersgaard, A. M., & Wiese, C. S. J.—31 Jan. 1911; UK. 26,001, 2 Dec. 1907. Air pump of the piston type. 1.

329. Kjaersgaard, A. M., & Wiese, C. S. J.—31 Jan. 1911; UK. 26,002, 2 Dec. 1907. Refrigerating machine of the absorption type. 1.

330. Westinghouse Brake Co., Ld.—31 Jan. 1911; UK. 22,315, 30 Sept. 1909. Oil engine in which the air is passed partly through the combustion chamber and partly direct to the cylinder. 1.

331. Westinghouse Brake Co., Ld.—31 Jan. 1911; UK. 22,314, 30 Sept. 1909. Oil engine with the combustion chamber formed in two or more parts, with independent oil supply. 1.

332. Dewrance, J.—31 Jan. 1911; UK. 28,477, 6 Dec. 1909. Bearings for vehicles, the crown of white-metal is provided with a metal strip to afford a temporary bearing in case of fusion of the white-metal. 1.

333. Serpek, O.—30 Aug. 1911; UK. 13,086, 30 May 1910. Aluminium nitride made by treating carbon and alumina with nitrogen in an electric furnace, with revolving tubes. Reference is made to No. 317 of 1910. 1.

334. Serpek, O.—31 Jan. 1911; UK. 13,088, 30 May 1910. Alumina is made by the Bayer process with substitution of aluminium nitride for bauxite.

335. Dwight, C. D., Mercer, H. A., & Baker, F.—21 July 1911; UK. 12,148, 17 May 1910. Folding deck chair. 1.

336. Gnanaprakasam, V. S.—Gully.

337. Voster, F., & Jungbauer, M.—31 Jan. 1911; UK. 23,822, 18 Oct. 1909. Carding cotton, means for cleaning or stripping cards by suction. 1.

338. Szot-Czeten, I.—29 Sept. 1910; UK. 2837, 4 Feb. 1910. Journals of vehicles with renewable sleeve, means for lubrication, etc. 4.

339. Turbon Patent Fan Co., Ld.—23 Aug. 1910; UK. 8454, 7 April 1910. Corrugated rings for centrifugal blowers or pumps. 2.

340. Serpek, O.—7 Feb. 1911; UK. 15,997, 8 July 1909 Aluminium nitride is treated with aluminates in the presence of water for production of ammonia.

341. Shurfuddeen Ahmed, M.—Centrifugal fans.

342. Christian, A. R.—11 May 1911. Trolley pole, spring controlled, and arranged to drop if the wheel slips off the overhead wire. 4.

343. Dyer, R. E. H.—28 Jan. 1911. Graduated circle with sighting bars, or a mirror, for the purpose of night marching by aid of the pole star. 2.

344. Ware, S. & C.—2 Sept. 1910. Rail joint with V-shaped mortise and tenon on tread and special fishplate with lugs to prevent creeping. 1.

345. Rooke, C. M. S. & G. A. L.—21 Jan. 1911. Producer for manufacture of carburetted air gas. 1.

346. Schneider, J. M.—Lamps and stoves.

347. General Caoutchouc Co., Ld.—22 April 1911; UK. 7139, 22 March 1910. Caoutchouc extraction by partial solution followed by solution and removal of the resins while mass is in a comminuted state. 1.

348. Serpek, O.—22 April 1911; UK. 7507, 29 March 1909. Aluminium nitride produced from aluminous compounds and carbon in presence of nitrogen at a particular temperature.

349. The Gas Economising & Improved Light Syndicate, Ld., & Wilkie, J., & Macfarlane, O. P.—11 Aug. 1910; UK. 21,819, 8 Feb. 1910. Oil vapour lamp burners, air inlet. 1.

350. Nobel's Explosives Co., Ld., & Evans, W. T.—11 Aug. 1910; UK. 16,709, 17 July 1909. Electric igniter for explosives. 2.

351. Lancaster-Sutton, Miss R.—10 Feb. 1911. Punkah pulling attachment combined with rotary fan and means for cooling motor. 1.

352. Rice Gas Engine Co.—15 Nov. 1910. Internal combustion engines. Mechanism for employing compressed air in starting. 4.

353. MacCabe, W. B.—Roads.

354. Abbott, J. D.—13 March 1911; UK. 18,314, 9 Aug. 1909. Change speed and reversing gear for motor cars, etc. 1.

355. Sharpe, A. E. W.—10 Feb. 1911. Dust shields for axle boxes of railway rolling stock. 1.

356. Krishnamachari, V.—Typewriters.

357. Berry, H., & Mann, G. H.—7 Feb. 1911; UK. 16,420, 14 July 1909. Piston valve worked by variable stroke eccentric for Otto cycle internal combustion engine. 1.

358. Dutton, C., & Mackenzie & Holland, Ld.—24 Sept. 1910; UK. 3578, 14 Feb. 1910. Use of track circuit in electrical interlocking for single line railway working. (Reference is made to Reg. No. 506 of 1909.) 4.

359. Hamill, W. W.—7 Feb. 1911; UK. 6901, 23 March 1909. Vaporizer and carburetter with means for regulating fuel and air supply. 4.

360. Société des Telegraphes multiplex, systeme E. Mercadier.—20 March 1911. Mono-telephone relay; improvement on Reg. No. 163 of 1908. 1.

361. Ismail, R.—25 Oct. 1910. Lever lock with supplementary levers and key to prevent tampering. 1.

362. Romme, W. S.—8 Dec. 1910. Aëroplane of special construction designed to secure stability. 3.

363. Rechniewski, S.—18 Aug. 1910; UK. 3556, 23 Feb. 1910. Interconnecting lateral walls of ferro-concrete caissons by iron frames. 2.

364. Jackson, J. G.—18 Aug. 1910; UK. 7865, 2 April 1909. Working plates of hulling, grinding and the like machines, reinforced by washers and wire mesh. 1.

365. Willkomm, K. F.—4 Nov. 1910; UK. 3812, 16 Feb. 1910. Diminishing shock when arresting rapidly falling or rotating bodies, as cages, rotating wheels and the like. 1.

366. Willkomm, K. F.—18 Aug. 1910; UK. 3813, 16 Feb. 1910. Concussion device for cutting off gas, steam, etc., from engines when speed is excessive. 1.

367. Standard Alloys, Ld.—7 Oct. 1910; UK. 1404, 20 Jan. 1909. Metals or alloys poured through a sieve, when molten, into solutions containing reagents to alter their physical characteristics.

368. Standard Alloys, Ld.—7 Oct. 1910; UK. 1403, 20 Jan. 1909. Solders made by process described in Reg. No 367 of 1910.

369. Simpson, W. S.—18 Aug. 1910; UK. 24,458, 25 Oct. 1909. Distilling solids and heating and separating gases *in vacuo*. 5.

370. Simpson, W. S.—18 Aug. 1910; UK. 20,237, 3 Sept. 1909. Coke purification and recovery of by-products by method described in Reg. No. 369 of 1910. 1.

371. Hughes, E. A.—21 March 1911. Charcoal kiln. 2.

372. McMullen, G. B.—18 Feb 1911; UK. 14,657, 17 June 1910. Separating pith and fibre of sugarcane and utilizing both constituents.

373. Ryland, T. J. F., & Louis, E. S.—1 Sept. 1910; UK. 26,628, 8 Dec. 1908. Expanding pulley of the interpenetrating cone type. 3.

374 Olsen, O. M. J.—20 Sept. 1910; UK. 21,811, 24 Sept. 1909. Brushes with grooved handle and the double fibres held in the groove by a spring plate. 1.

375. Humphris, F.—1 Sept. 1910; UK. 14,506, 21 June 1909. Toothed gearing of the Humphris type, machine for making. 9.

376. Dutton, S. T.—3 April 1911. Block instruments with recording slip added, showing the position of the handle or commutator at the time of making an entry. 1.

377. Goldman, L. B.—25 Aug. 1910; UK. 8687, 13 April 1909. Aëroplane constructed so as to allow motion of the chassis with reference to the planes. 4.

378. Mygatt, O. A.—4 Nov. 1910. Moulding designs on glass vessels by pressure. 7.

379. Lake, H. W.—26 Nov. 1910; UK. 4575, 24 Feb. 1909. Yarn cleaner for spinning machines. 1.

380. Sayer, R. C.—21 Feb. 1911. UK. 25,697, 8 Nov. 1909. Electric variable speed gear for vehicles. 1.

381. New Superheater Co., Ld.—2 Sept. 1910; UK. 29,344, 30 July 1909. Superheater for locomotive boilers comprising a chamber, connected with the tubes, disposed between the blast pipe and chimney, and having a central passage for the heated gases. 1.

382. Pink, L.—24 Oct. 1910. Magnesite composition for covering floors and walls, with addition of oleic and phosphoric acid, to render it non-hydroscopic.

383. Pulgjaner, P.—Rotary engines.

384. Jones, T. F. G.—9 Dec. 1910. Grain shelling and winnowing machine of disc type, for dhal or other easily split grain. 1.

385. Wren, E. C.—24 July 1911; UK. 21,833, 10 March 1910. Camp bedstead and valise. 1.

386. Mistri Kuber Moti.—6 March 1911. Loom fork with legs rivetted on.

387. Hughes, E. A.—Tea.

388. Manuck Lal.—Carpets.

389. Midgley, A. H., & Vandervell, C. A.—1 Sept. 1910; UK. 16,447, 14 July 1910. Train lighting dynamo, utilizing the local current in the generator coils short-circuited by the brushes. 1.

390. Wardlaw, F. A.—1 Sept. 1910; UK. 16,846, 19 July 1909 Clack valves for locomotive boilers with non-metallic seating. 1.

391. Asmatulla, M.—Water-lifts.

392. Lake, H. W.—31 Jan. 1911; UK. 8329, 5 April 1909. Textile fibres of flax, hemp, etc., produced by disintegrating unrotted stalks and stripping same.

393. Cedford Gas Process Co.—Methane.

394. Reid, J.—17 March 1911; UK. 2844, 30 Dec. 1908. Collapsible oblong collar box. 1.

395. Banks, W., & Warrell, A.—16 May 1911; UK. 7386, 24 March 1910.—Mixture of asbestos and oil for packing, lubricating and non-conducting purposes.

396. Baldwin, B. A.—Water wheels.

397. Panton, J. A.—22 Nov. 1910; UK. 28,752, 8 Dec. 1909. Reinforcing cast iron brake shoes with a backing of wrought iron or steel provided with a separate lug attached by a cotter in manner described. 3.

398. Hutchinson, C. M.—13 March 1911; UK. 6285, 16 March 1909. Preheating fermented tea leaf in a closed chamber to the temperature at which the leaf is to be subsequently dried. 1.

399. Prentice, F. W.—24 Oct. 1910; UK. 7621, 28 March 1910. Railway signalling employing Hertzian waves and also a sectional track circuit. 2.

400. Tourtel, J. M.—4 Nov. 1910; UK. 7722, 31 March 1910. Adding machines arranged to prevent accidental or fraudulent manipulation. 6.

401. Watkinson, J. & Payne, A. E.—27 Feb. 1911. Carbon rheostats with roller and flat spring contacts. 1.

402. A. C. Clark & Co.—10 July 1911; UK. 13,006, 28 May 1910. Boiler cleaner with longitudinal draw-off head and a series of openings therein for removing the sediment. Improvement on No. 345 of 1899. 2.

403. Sherwood, H. T.—15 Sept. 1910; UK. 13,460, 8 June 1909. Corsets adjustable at the side by means of straps. 1.

404. Bourke, A. M.—15 Sept. 1910; UK. 18,690, 13 Aug. 1909. Insulator for telegraphs and telephones with groove and gripping device for wire. 1.

405. W. M. Still & Sons, Ld., & Still, E. H.—8 March 1911; UK. 16,068, 5 July 1910. Gas lamps of inverted incandescent type, securing the mantles in a manner to facilitate removal and replacement. Reference is made to Reg. No. 163 of 1910. 1.

406. Winby, L. S.—24 Sept. 1910. Securing rails to sleepers and preventing creep. 1.

407. Schmid, P.—13 March 1911. Jute treatment with caustic lye and soap foam to render it woolly.

408. Hodgkinson, J.—24 Sept. 1910; UK. 5011, 5 March 1908. Brine evaporator in combination with a furnace, scraper device and other auxiliary apparatus. 4.

409. Young, Mrs. A.—6 Dec. 1910. Saddle constructed with passages for carrying cartridges. 1.

410. Fraser, P. L. R.—5 June 1911. Electric fans fixed by means of rods adjustable for length, to enable fans to be tilted. 1.

411. Bhappu, K. K.—Oil mill.

412. Cosserat, W. A. P.—8 March 1911. Railway interlocking bolt type facing points. 1.

413. Angus, A. R.—25 May 1912. Wheels of vehicles separately mounted on semi-axles, kept in alignment, but capable of adjustment for different gauges of the track. 11.

414. Julius, G. A.—16 May 1911. Ticket machine for printing and issuing tickets and for registering and recording the issue, etc. 19.

415. N. D. Harri Ram & Brother.—5 June 1911. Latrine seats. 1.

416. Montagna, A.—6 March 1911; UK. 15,734, 30 June 1910. Transmitting pictures telegraphically or telephonically by letters or signs, corresponding to geometrical figures in black and white, from a reticulated enlargement. 2.

417. Bellgrove, C. F.—22 Dec. 1910. Scoring board for cribbage, etc., with three holes abreast instead of two. 1.

418. Edmonds, J. E. J.—27 Feb. 1911. Pipe cleaner with brushes for mains, etc. 1.

419. Shailer, G. W., Collis C., D. & J.—24 Oct. 1910. Lid or cover for milk jugs, etc., comprising a pivoted wire frame and porous material held by same. 1.

420. Wilson, W. J. A.—Aëronautics.

421. Westinghouse Metal Filament Lamp Co., Ld.—13 March 1911; UK. 2983, 7 Feb. 1910. Tungsten, etc., metal filaments decarburized by heating in a vacuum, certain known processes being disclaimed. 1.

422. Hodgkinson, J.—15 Feb. 1911; UK. 26,068, 3 Dec. 1908. Brine evaporating apparatus; improvement on Reg. No. 408 of 1910. 3.

423. Storer, J., & Witt, G. C. de.—16 May 1911. Incandescent burners with arrangements for pre-heating the gas and air supply. 1.

424. Witzenmann, E.—13 March 1911; UK. 3822, 16 Feb. 1909. Flexible tubes of corrugated longitudinal section. 2.

425. Baldwin, B. A.—Water wheels.

426. Williams, T.—6 Feb. 1911; UK. 14,439, 21 June 1909 Sewage treatment by electricity derived from turbines driven by the flow of the effluent.

427. Cole, G. W.—30 May 1911. Pulley or shoot runner for wire ropeways, with centrifugal governor. 2.

428. Marshall, D.—28 Feb. 1911; UK. 2149, 29 Jan. 1909. Door opening apparatus with levers operated by the foot, etc. 2.

429. Voelker, A.—1 March 1911; UK. 18,713, 14 Aug. 1909. Working quartz by inserting a volatilizable foreign body in the plastic hot mass, the gases from which will form hollows therein. 1.

430. Welsh, W , Purvis, W., & Forbes, J.—22 Sept 1910; UK. 10,339, 1 May 1909. Spring wheel with adjustable tubular spokes, containing springs, for each segment of the rim. 1.

431. Ewell, H. P.—Amalgam.

432. Anderson, W. F., Russell, S. A., & Grey, W. E.—22 March 1911; UK. 21,219, 16 Sept. 1909. Train lighting, double battery system, with centrifugal governor-controlled switch and demagnetising winding or generator field winding to prevent excessive rate of charge 3.

433. Anderson, W. F., Russell, S. A., & Grey, W. E.—20 March 1911; UK. 15,618, 29 June 1910. Train lighting described in Reg. No. 432 of 1910, modified. 1.

434. Hoffmann, L.—5 June 1911; UK. 13,414, 2 June 1910. Driving gear for vehicles consisting of a driven shaft the running wheels of which are not fixed but are connected to the axle by springs. 1.

435. Heskett, T J.—20 March 1911. Bessemer steel process with the provision of an intermediate receiver between the cupola and converted. 1.

436. Gilman, F., & Clements, G. F.—20 March 1911; UK. 69, 1 Jan. 1909. Tool for removing scale from pipes or for enlarging a bore hole in rock, etc., consisting of a fluid pressure hammer acting through a cone on radially-disposed cutting tools. 4.

437. Plank, A. A.—17 June 1911. Resilient tyres of coiled steel spring. 1.

438. Evans, T. A.—22 March 1911. Looms with means for automatically operating the shuttle and heddles, in a handloom, by the movement of the beating up mechanism. 1.

439. Gladman, F. B.—Indicating.

440. **Radley, B. V., & Allen, W. L.**—4 April 1911. **Railway apparatus for simultaneously picking up and delivering tokens or tablets on running trains.** 1.

441. Wadia, D. M.—22 March 1911; UK. 3447, 12 Feb. 1910. **Spinning, automatic** device for controlling the speed of ring spinning frames. 1.

442. Williams, L. W., O. R. & D. D.—5 Nov. 1910; UK. 19,424, 16 Sept. 1908. Railway points with counterbalance springs are fitted on the rod actuating facing point bars, to keep it in position. 1.

443 Baldwin, B. A.—Water-wheels.

444. Beaton, J. St. C.—6 Feb. 1911. Drying air, previous to mixing with hyrocarbon vapour, by condensation which is aided by the evaporation of the hydrocarbon in a separate vessel continguous to the air vessel. 1.

445. Nier, E., & Ehnur, J. M. M.—22 March 1911; UK. 10,445, 4 May 1910. Talking machine having the motor within the sound conduit or horn. 5.

446. Wildeblood, H. S.—Aëronautics.

447. General Electric Co.—15 Nov. 1910. Tungsten, permanently ductile and pure, is made from tungstic oxide, by reduction to pure tungsten with hydrogen, consolidation by pressure, sintering, and then drawing into filaments.

448. Metcalfe, G.—7 Oct. 1910. Fibrous material, impregnated with india-rubber solution, is dried and used for tyres, mats and other purposes.

449. Morgan, W. H.—Railway sleepers.

450. Tickell, R. E.—17 March 1911. Flushing basin for water closets. 3.

451. Princess Anne of Lowerstein Wertheim.—6 Feb. 1911; UK. 21,985, 27 Sept. 1909. Ships' bunks, cots, etc., of self-levelling type, mounted on gimbals with brake attachment. 2.

452. Goolamhussein Ismailjee & Bros.—Boxes.

453. Begg, Sutherland & Co.—1 Feb. 1911. Sludger and swivel head combined for borers. 1.

454. Hall, D. K.—14 Nov. 1910. Cleaning machine for the butt end of jute fibres by means of a revolving scutching drum with belt or chain carrier. 5.

455. British Westinghouse Electric & Manufacturing Co., Ld.—5 June 1911; UK. 30,186, 24 Dec. 1909. Internal combustion engines arranged to allow fuel to be injected, with or without air, after a preliminary explosion of gas has taken place in the cylinder. 1.

456. Boston, H. G.—20 June 1911; UK. 20,437, 7 Sept. 1909. Air-tight cover for jars, etc., combined with a special construction of the neck of the jar. 1.

457. **Rechniewski, S.**—7 Oct. 1910; UK. 6789, 17 March 1910. **Roof structure** of ferro-concrete of saddle-back form. 2.

458. Colombler, M. de R. de, & Clement, J.—28 Feb. 1911. Gold bearing sand is treated electrostatically for the automatic separation of the metal. 1.

459. Moray, S. Dawson.—9 Dec. 1910. Dust bin of which the cover can be raised and turned to one side by a foot lever, returning automatically on release. 1.

460. Chopin, F. C. St. J.—16 Jan. 1911. Easel and paint box combined. 3.

461. Esplen, A.—18 April 1911; UK. 5754, 14 March 1908. Firebar having a midfeather projecting from groove and half the height thereof. 1.

462. Consolidated Brake & Engineering Co., Ld., & Luard, E. S.—4 Nov. 1910; UK. 21,945, 25 Sept. 1909. Railway vacuum brake apparatus provided with an auxiliary disc or cup valve as a seal in case of leakage. 1.

463. Rolfe, J. H. H.—18 May 1911. Drying apparatus for grain, tea, etc., comprising a revolving flue with projections carrying the material to be dried. 1.

464. Kanhialal Nandkishore.—21 Feb. 1911. Padlock with modified construction and anti-picking device. 1.

465. Bowles, G. B.—31 Jan. 1911. Brake mechanism by which the pressure of brake blocks on a pair of wheels is equalized, whether worked by hand or automatically. 4.

466. Wakefield, C. C.—4 April 1911; UK. 19,383, 23 Aug. 1909. Gas regulator, for acetylene, of the automatic bell type. 2.

467. Vereinigte Glanzstoff-Fabriken, A. G.—Cellulose.

468. Stromeyer Brake Shoe Co.—4 April 1911; UK. 17,276, 20 July 1910. Brake shoes having a series of pockets filled with a gritty material composed of magnesite, etc. 1.

469. Clancy Metals Process Co.—26 Nov. 1910. Ore treatment by the action of cyanogen and an amide compound and electrolyzing the solution.

470. Harmon, N. O.—27 Oct. 1910. Wave motor for pumping up water to be utilized by means of a turbine. 3.

471. McDonald, J.—Agricultural appliances.

472. Freymuth, W. A.—24 Nov. 1911. Lac, process for drawing it out into fine silk-like strands. 1.

473. Eassie, F.—28 Nov. 1910; UK. 20,808, 11 Sept. 1909. Saddle with metal plates disposed in such a way as to distribute the weight evenly over a numnah.

474. Bonar, J.—22 March 1911. Grinding and crushing machine of the roller type, for lime, etc. 3.

475. Ghosh, C. C.—Spinning.

476. Greenwood, C. V., Stocks, H. B., & White, H. G.—15 Nov. 1910; UK. 19,768, 28 Aug. 1909. Gum tragasol is expressed from kernels of locust beans after decorticating the endosperms and heating.

477. Clegg, L. H.—Felt.

478. Victoria Spinning Co., Ld., & Black, G. B.—21 July 1911; UK. 21,810, 24 Sept. 1909. Spinning, bobbin or bobbin carrier frictionally dragged by means of sliding blocks or levers acted on by centrifugal force. 1.

479. Victoria Spinning Co., Ld., & Black, G. B.—14 July 1911; UK. 30,265, 28 Dec. 1909. Spinning and twisting machinery, the bobbin carrier is combined with a non-rotating cup and with weighted brake levers, actuated by the increasing weight of the bobbin during winding, to regulate the drag. 1.

480. Mee Ming, Y.—Puzzles.

481. Watson, E. F.—Spinning.

482. Neff, C., & Brandes, A.—11 April 1911. Hard water is passed over corrugated aluminium plates, freed from oxide, and the CO_2 is removed from the water, which takes up aluminium hydrate.

483. Crozier, J. W.—Bicycle stand.

484. **Luard, E. S., & Consolidated Brake & Engineering Co., Ld.**—4 Nov. 1910; UK. 20,660, 9 Sept. 1909. Railway vacuum brake apparatus and the auxiliary ball valves of the same. 1.

485. Burgess, W.—4 Nov. 1910; UK. 12,988, 2 June 1909. Mixture of saltpetre, bleaching powder and cupric oxide is utilized for neutralizing the gases produced by detonating explosives.

486. Schrottky de Schrottzynski, Baron.—2 March 1911. Indigo manufacture apparatus and process for second steeping. 1.

487. Allibhoy Vallijee & Sons.—Ice box.

488. Forbes, E. R.—14 July 1911. Cooking utensil provided with a number of detachable inner vessels for boiling different vegetables simultaneously. 1.

489. "Captain" Motor Wheel Co., Ld.—7 April 1911; UK. 2805, 4 Feb. 1910. Detachable wheel provided with a rim that is a tight fit on the felloe and requires mechanical means to place or remove it. 2.

490. Schachtel, H.—27 Oct. 1910; UK. 19,181, 15 Aug. 1910. Carburetted air gas, made from benzol in special apparatus. 2.

491. Hall, F. H.—27 Oct. 1910; UK. 28,666, 8 Dec. 1909. Pneumatic tyre inner tubes are reinforced by means of a band of canvas which is pleated or gussetted. 2.

492. Kitchen, J. G. A., & Storey, I. H.—21 July 1911; UK. 27,309, 16 Dec. 1908. Pneumatic tyres with an annular air chamber combined with a jacket in segments, fitted together on spigot and faucet principle. 1.

493. Birnbaum, T.—4 April 1911; UK. 24,692, 17 Nov. 1908. Gramophones, etc., with an automatic brake comprising a horizontal braking lever and a horizontal or vertical tripping lever. 2.

494. Forster, W.—5 June 1911; UK. 6317, 14 March 1910. Looms, eccentric washers are used for adjustably securing shuttle box fronts on the lays. 1.

495. Maxwell, F. O.—10 Feb. 1911. Looms, means for regulating the traverse of the slays of handlooms. 1.

496. Bana, H. K.—13 Jan. 1911. Crossheads and valves of pumps. Improvements on Reg. No. 367 of 1908. 5.

497. Wood, J. N.—16 Nov. 1910; UK. 18,388, 3 Aug. 1910. Presses for baling cotton of the hydraulic type taking the cotton layer direct from the gins. 9.

498. Mukherjee, Harsha Nath.—11 Sept. 1911. Candle stick filled with water, intended to act in place of a spring. 1.

499. Lee, W. A.—Gas and oil engines.

500. Wieder, H. G.—4 Nov. 1910; UK. 17,753, 24 Aug. 1908. Phonograph or the like having a plurality of short trumpets branching from a sound pipe and terminating in the box enclosing the instrument. 3.

501. Santachiara, P.—4 Nov. 1910; UK. 19,034, 12 Aug. 1910. Tractor for ploughs, etc., with free running drums which can be independently clutched to a rotating shaft. 3.

502. Rostron, J.—Looms.

503. Hardy, J. R.—22 April 1911; UK. 20,584, 3 Sept. 1910. Railway vacuum brake pistons details. 1.

504. Hibberd, C. E.—20 June 1911; UK. 14,758, 23 June 1909. Coin-freed mechanism for electricity meters adapted for arresting coins of different value in predetermined positions and supplying according to the value of the coin. 2.

505. Worthington, H. L.—22 April 1911. Rat trap for fixing on a ship's hawser. 1.

506. R. F. & J. Alexander & Co., Ld., & Mackie, J.—17 May 1911; UK. 5498, 18 March 1909. Winding thread, yarn, etc., on to cards. 8.

507. Rasmussen, H. P.—Insulation.

508. Amesbury, W. L. R.—22 March 1911. Saddle for transport and other purposes. 1.

509. Nicholls, F. W.—28 April 1911. Bottle opener with lever action. 1.

510. Ram Sarup Mistri.—21 Aug. 1911. Water lift with multiplying pulley gear. 1.

511. Ross, C. H. A. F. L.—16 May 1911; UK. 21,413, 14 Sept. 1910. Fire-arms with improved trigger, extractor and magazine mechanisms. 6.

512. Balfour's Patents, Ld.—20 Jan. 1912; UK. 29,857, 21 Dec. 1909. Spike with split shank of special form. 1.

513. Bhagwan Das.—Cooking appliances.

514. Harvey, A. R.—17 June 1911. Hooks with a sliding sleeve to secure the tongue in crane, swivel, etc., hooks. 1.

515. McDonald, M.—22 Nov. 1910. Railway signals operated mechanically by passing trains. 1.

516. Duplex Seed Drill Co. Proprietary, Ld.—22 Nov. 1910. Seed drill and with attachment for placing fertilizers in the ground below the seed. 2.

517. High, J. D.—1 Feb. 1911. *Chula* or stove mainly of sheet iron with accommodation for deckchies, pans, oven and boiler. 1.

518. Severin, H.—27 Feb. 1911. Glass manufacture, means for extracting measured quantities from the furnace. 2.

519. Edwards, T.—27 Feb. 1911. Ore roasting furnaces with separately fired, superimposed reverbatory chambers and mechanical rabbles. 8.

520. Swan, P. S.—29 Nov. 1910; UK. 28,333, 4 Dec. 1909. Electric fan with central bearing spindle arranged for lubricating. 1.

521. Vick, F H.—Weirs.

522. Bunting, S. A. S.—17 Dec. 1910. Jack with hollow ram and pumps combined for lifting well casings or piles. 4.

523. William Simons & Co., Ld., & Brown, W. & W.—1 Dec. 1910; UK. 13,123, 4 June 1909. Hopper dredger with suction and cutting devices. 3.

524. Mikimoto, K.—8 Dec. 1910; UK. 17,240, 20 July 1910. Pearl production by injecting mercury or other liquid into the oyster by a needle syringe.

525. Tyre, E.—23 Dec. 1910; UK. 18,303, 2 Aug. 1910. Railway signal tablet apparatus with electric control. 2.

526. Archer, E. H.—9 Dec. 1910; UK. 9632, 20 April 1910. Boxes of veneer with metal strip joints, means for applying strips evenly before folding. 1.

527. Alcock, A. U.—9 Dec. 1910. Drying timber by electricity. 1.

528. Alcock, F. A.—9 Dec. 1910. Billiard table cushions with electric heating resistances and with spring plate. 1.

529. Leeds Forge Co., Ld., & Sharp, R. G.—31 Jan. 1911; UK. 5008, 28 Feb. 1910. Railway hopper bottom wagons with doors for central or either side discharge. 1.

530. J. Stone & Co., Ld., & Darker, A. H.—15 Feb. 1911; UK. 7468 of 1910, 27 March 1909. Electric switch and governor combined for electric lighting, etc., systems on trains. 2.

531. J. Stone & Co., Ld., & Darker, A. H.—15 Feb. 1911; UK. 7470 of 1910, 27 March 1909. Electric lighting, etc., systems for trains with electromagnetic switch for protecting the batteries. 3.

532. J. Stone & Co., Ld., & Darber, A. H.—15 Feb. 1911; UK. 7471 of 1910, 27 March 1909. Electric lighting, etc., systems for trains comprising arrangements of dynamos, batteries and resistances. 4.

533. Dennison, W. N.—17 May 1911; UK. 17,345, 21 July 1910. Talking machines with discs frictionally driven by constant speed motors, the position of the driving gear being controlled by that of the sound box so as to give a constant speed on the record as the style moves to or from the centre. 1.

534. English, J. C.—17 May 1911; UK. 4172, 19 Feb. 1910. Talking machines of the enclosed type with adjustable amplifiers and control of sound direction. 7.

535. English, J. C.—17 May 1911; UK. 16,035, 5 July 1910. Talking machine, similar to No. 534 above. 3.

536. English, J. C.—17 May 1911; UK. 19,144, 15 Aug. 1910. Talking machine, similar to No. 534 above. 2.

537. Berglund, G. H. F.—17 May 1911; UK. 14,949, 21 June 1910. Railway vehicle couplings of the automatic type. 4.

538. Gain, F.—17 May 1911; UK. 19,360, 17 Aug. 1910. Ventilating railway vehicles, means for holding and opening louvres. 1.

539. Fletcher, C. G.—25 May 1912; UK. 3489, 12 Feb. 1910. Raw hide is used in the handles, etc., or on the striking surfaces of implements used in games, such as clubs, bats, mallets, cues, etc. 2.

540. Johnson, E. R.—17 May 1911; UK. 5196, 2 March 1910. Talking machine sound boxes with the stylus supported at right angles to the diaphragm. 1.

541. Geo. Brunton & Son & Cox, F. A.—22 Aug. 1911. Internal combustion engines of the two cycle type, details of valves, carburettor, etc. 2.

542. Shelley, A. D. G.—24 July 1911; UK. 11,819, 12 May 1910. Tatties and other evaporating screens kept moist as described in No. 185 of 1910, with improvements in details. 3.

543. Johannes, J.—Lac.

544. Levick, J.—1 Dec. 1910; UK. 17,698, 26 July 1910. Folding lavatory basins and fittings. 3.

545. Johannes, J.—Lac.

546. Castle, G.—17 May 1911. Fireproof flooring construction with hollow bricks and stays. 1.

547. Société Francaise des Distilleries de L'Indo-Chine.—14 Aug. 1912; UK. 20,521, 2 Sept 1910. Sake and similar beverages made by processes involving asceptic methods and the selection of materials, etc.

548. Société Francaise des Distilleries de L'Indo-Chine.—14 Aug. 1912; UK. 20,520, 2 Sept. 1910. Food products, sauces, etc., made from soy and other leguminous materials by treatments involving asceptic methods, selection of ferments, etc.

549. Gearon, J.—16 May 1911; UK. 942, 13 Jan. 1910. Railway sleeper formed as a rectangular tube from layers of steel and felt or paper, etc., and filled with broken stone. 1.

550. Wort, W. E.—16 May 1911; UK. 5750, 8 March 1910. Railway axle box, etc., packing made of leather rings and metal holder. 1.

551. Hood, T. W. A., & Glenvale, T. R. M.—22 Dec. 1910. Neckties, etc., in two parts, one adjustable on the other. 1.

552. Hood, T. W. A., & Glenvale, T. R. M.—22 Dec. 1910. Necktie, etc., holder for use with double collars. 1.

553. Hood, T. W. A., & Glenvale, T. R. M.—22 Dec. 1910. Necktie, etc., holder for use with double collars. 1.

554. Hume, E. J. & W. R.—22 Dec. 1910. Concrete pipes, columns, blocks, etc., with or without reinforcement are made in centrifugal machinery. 3.

555. Smith, W. R.—8 Dec. 1910. Wax sweating method and apparatus. 1.

556 Marshall, J. A. G.—8 Dec. 1910; UK. 16,425, 9 July 1910. Pistol or revolver with steadying rest hinged to the butt. 1.

557. Macdonald, R. M.—5 July 1911. Roofing constructed with "Pabco" asphatum, floatine, felt and "Malthoid" roofing.

558. Heurtley, E. S.—8 Dec. 1910; UK. 17,555, 28 July 1909. Electric hot wire instruments arranged for magnifying small effects for measuring, telegraph recording, telephones, etc. 1.

559. Westinghouse Metal Filament Lamp Co., Ld.—5 June 1911; UK. 22,852, 3 Oct. 1910. Electric incandescent metal filament lamps with filaments, thickened, branched, otherwise arranged to reduce heating of leading-in wires and supports. 1.

560. Das, Krishna Chandra.—Electric resistance.

561. Lewis, J. T.—Rail joint.

562. Khairdin.—Water-lifts.

563. Tej Shanker Kochak.—Cooking appliances.

564. Lotbiniere, A. J. de.—Cocks.

565. Kramer, H. V.—6 March 1911; UK. 25,407, 4 Nov. 1909. Wireless telephone system, specially adapted for railways. 2.

566. Mansfield, W.—4 April 1911. Fountains illuminated by electricity. 2.

567. Margetts, B. L.—23 Dec. 1910. Broom head holdfast. 1.

568. Leeds Forge Co., Ld., & Ferguson, T.—11 April 1911; UK. 26,289, 13 Nov. 1909. Electric switching and resistance arrangements for train lighting systems. 2.

569. Collier, A. T.—10 June 1911; UK. 23,308, 12 Oct. 1909. India-rubber dough or other plastic material is mixed with short lengths of twisted fibrous material, shaped and vulcanised for tyres, belting, boot soles, balls, pipes, etc.

570. Reynaud, G.—10 June 1911. India-rubber substitutes are prepared by the action of progressively concentrated aqueous solutions of sulphuric acid on oil of turpentine absorbed by non-vulcanised rubber. Hydrochloric acid may finally be used.

571. Johnson, E. R., & English, J. C.—28 Aug. 1911; UK. 16,035, 5 July 1910. Talking machine with improvements on that described in No. 572 below. 4.

572. Johnson, E. R., & English, J. C.—10 June 1911; UK. 16,034, 5 July 1910. Talking machine of the enclosed cabinet type with part of the horn in a hinged portion of the cabinet. 4.

573. Giesecke, C.—15 Dec. 1910; UK. 3698, 15 Feb. 1910. Gold, silver, etc., ores are ground with very little water in ball mills of special form combined with mixing apparatus, the paste is diluted and treated with cyanide or other solutions. 2.

574. Ahmad, Mir Nazir.—17 Oct. 1911. Plough with broad wheels and several adjustable shares. 2.

575. Lethbridge, S.—1 May 1911. Composition of oil, creosote and ether for preventing corrosion in fire-arms using cordite, etc.

576. Head, Wrightson & Co., Ld.—17 June 1911; UK. 23,746, 13 Oct. 1910. Bridges with submerged pontoons with anchoring weights secured to the bridge structure or supports. 1.

577. Cummins, A. E.—8 Aug. 1911; UK. 15,161, 23 June 1910. Baling press for cotton of the horizontal end-way type with provision for a long filling box for loose cotton. 4.

578. Fenby, R. E., & Kynoch, Ld.—17 June 1911; UK. 23,798, 14 Oct. 1910. Bullet with rounded ends, containing pellets and cylindrical central part reduced in diameter. 1.

579. Metals Extraction Corporation, Ld.—17 June 1911; UK. 28,611, 7 Dec. 1909. Zinc, copper, etc., are extracted from complex sulphide ores by a regenerative sulphurous acid process. 1.

580. Adamson. R. A.—31 Jan. 1911; UK. 27,812, 29 Nov. 1909. Pipe cleaning or scraping machines for water mains, etc., *in situ*. 2.

581. Candy, F.—17 June 1911; UK. 4212, 20 Feb. 1909. Water is freed from chlorine, remaining after treatment by chloride of lime, etc., by coke, coalite, charcoal or carbonized lignite or shale.

582. Barnard, T., & Edwards, G. C.—17 June 1911. Controller for electro-motors, specially for printing machines. 3.

583. Pyzel, E. D.—8 Feb. 1911; UK. 22,313, 26 Sept. 1910. Paraffin wax sweating processes for continuous working. 6.

584. Bell Gas Saver Co., Ld.—13 Jan. 1911; UK. 284, 5 Jan. 1909. Pressure regulating valve or governor for gas. 2.

585. Taylor, I. F., & Pick, S.—13 Jan. 1911; UK. 16,013, 8 July 1909. Jib cranes specially for use in window, etc., openings. 3.

586. Watzlawik, F.—19 June 1911. Spinning, etc., machinery arrangements for discharging full spools. 6.

587. Cosserat, W. A. P.—24 June 1911. Railway switch locks connected for succession lockings. 2.

588. Potter, E. W.—22 May 1911. Loom back rail mounted adjustably on springs and swivelling supports. 1.

589. Manuel, C. O.—24 Jan. 1911. Metal stamping and flanging dies for making oil can ends in one operation. 1.

590. Farmer, J. A.—6 Jan. 1911. Refrigerator safe, construction and arrangement of details; freezing mixture. 1.

591. Zimmer, A. A. A.—5 June 1911; UK. 24,006, 19 Oct. 1909. Starched linen is waterproofed and glazed by treatment with rubber, stearic acid or other solution followed after partial drying with a coating of collodion or varnish, and calendering.

592. Chatterjee, P. C.—Loom.

593. Firm Ernst Gideon Bek.—Jewellery.

594. Smith, A.—20 June 1911; UK. 20,521, 30 Sept. 1908. Looms for hand or power with gravity or clutch arrangements for actuating the slay board. 4.

595. Oldfield, M. H.—11 Feb. 1911. Lifting jack with adjustable step to carry the load. 1.

596. Dass, B. C.—13 Jan. 1911. Baling press for jute, etc., with toggle linkage under the platen worked by a rack and gearing. 1.

597. Banerjee, K. C.—Tide and wave mills.

598. Gray, C. W.—13 Jan. 1911; UK. 21,929, 16 Oct. 1908. Glazing bars or astragals of glass, porcelain, etc., reinforced by metal wires and used with clips for dry glazing. 1.

599. Allen-Liversidge Portable Acetylene Co., Ld.—13 Jan. 1911; UK. 25,661, 6 Nov. 1909. Acetylene gas automatic generators with water supply to carbide controlled by leakage between surfaces of carbide container which is adjustable in depth or pressure in the water. 2.

600. Ginder, J. W.—12 Oct. 1911. Railway vehicle door locks arranged to be worked simultaneously. 2.

601. Dickie, R. S.—Paraffin wax.

602 Riegen, J. V.—1 Sept. 1911; UK. 14,412, 14 June 1910. Furnace fire-bar with low centre of gravity and grate bridge construction. 1.

603. Sanyal, J. N.—Cleaning composition.

604. Ralli, L. E., & Argenti, P. L.—29 May 1911. Gins for cotton with toothed rollers in the feed hopper for agitating the kuppas. 1.

605. Tinline, W. J.—13 Jan. 1911. Horse clippers and similar machines are sharpened by substituting dummy combs or cutters of abrading material for the opposing part. 1.

606. Eaton, E.—6 Jan. 1911. Tar distillation process and stills. 3.

607. Forbes, O. V.—6 Jan. 1911; UK. 26,935, 11 Dec. 1908. Boot and shoe detachable heels built up with equal lifts, compressed in a mould and hardened. 1.

608. Société des Raccords et Fermetures Rapides "Dayol" & Dayol, J. M.—6 Jan. 1911; UK. 13,011, 28 May 1910. Pipe coupling or stopper with bayonet joint action and screwed tightening sleeve protecting the claws. 1.

609. Prein, E.—6 Jan. 1911; UK. 19,782, 24 Aug. 1910. Looms with moistened pads in the reeds and shuttles for laying projecting fibres. 1.

610. Dobbie, R. S.—31 Jan. 1911; UK. 29,496, 16 Dec. 1909. Electric control of charge and discharge of batteries used on train lighting systems. 1.

611. Johnston, G.—17 March 1911; UK. 17,087, 22 July 1909. **Roller mills for** ore, etc., with material fed in a thin stream between high speed rollers of different diameter. 1.

612. Johnston, G.—8 March 1911; UK. 17,088, 22 July 1909. Filtering apparatus with frames moved into and out of the liquid. 1.

613. Dickson, R. C.—20 June 1911; UK. 20,476, 2 Sept. 1910. Oil fired furnaces for heating air for drying purposes, etc., with the damper and oil supply controlled by the compressed air supply. 2.

614. Ghatala, M. Z.—Medicine.

615. Fisher, W.—15 May 1911; UK. 25,462, 4 Nov. 1909. Rotary engines of the annular chamber type similar to No. 29 of 1910. 1.

616. Brown, C. R.—14 July 1911. Fibre decorticating and cleaning machines with beaters sloped, reversible L-shaped beaters, and with rollers speeded to give a rubbing action. 1.

617. Chatterton, A.—11 Feb. 1911. Pumps with flexible connection to unpacked piston and without separate barrel; rocking levers for working pump. 2.

618. Allen-Magill, J.—Cooking appliances.

619. Russell, R. A. G.—3 Feb. 1911. Punkah pulling machine with friction and trigger gear for converting rotary into reciprocating motion. 1.

620. Mohamed, F.—Dress.

621. Storey, I. H., & McCalla, W. E.—8 Aug. 1911; UK. 10,850, 7 May 1909. Bricks with enamelled facing plates secured by dove-tails. 1.

622. Dass, S. N.—5 July 1911. Press for baling cotton, etc., operated by linkages drawn together by a rope gearing with guide to ensure horizontality of the follower. 1.

623. Rasmussen, H. P.—22 Feb. 1911. Electric insulating or other composition containing mineral caoutchouc, mica, asbestos, serpentine, shellac and sulphur.

624. Nissen, P. N., & Head, Wrightson & Co., Ld.—19 Jan. 1911; UK. 24,266, 19 Oct. 1910. Stamp mills, construction of mortar and stamp head. 1.

625. Benson, R. S., & Head, Wrightson & Co., Ld.—19 Jan. 1911; UK. 24,269, 19 Oct. 1910. Coal, etc., washing machine of the shaking trough type. 1.

626. Lecoche, J.—Mechanism.

627. McLeod, H. T.—13 Feb. 1911. Railway sleeper of pot type for flat-footed rails. 1.

628. Lupne, H. B.—7 April 1911. Shelling and cleaning machine for groundnuts with revolving beaters and screens. 2.

629. Siegwart, H.—30 June 1911; UK. 25,080, 28 Oct. 1910. Pipes, hollow masts, etc., are made from stone slabs, etc., and cement laid on a core or flat and then wound, with suitable binding and reinforcing material. 1.

630. J. Stone & Co., Ld., & Darker, A. H.—15 Feb. 1911; UK. 7469 of 1910, 27 Oct. 1909. Electric change over switch for battery systems of train lighting, etc. 1.

631. Wilson, O. E.—14 July 1911; UK. 3165, 9 Feb. 1910. Stirrups and tie bars for reinforced concrete constructions. 2.

632. Wilson, O. E.—14 July 1911; UK. 3785, 16 Feb. 1910. Stirrups and tie bars for reinforced concrete constructions. 2.

633. Moyes, J., & Stevenson, C. A.—14 July 1911; UK. 5615, 7 March 1910. Signalling apparatus working with periodic explosions of combustible gas. 4.

634. Hines, J.—14 July 1911; UK. 17,740, 26 July 1910. Drying and heating apparatus of portable type for use in making tarred roads, etc. 3.

635. Beadle, G. W.—22 May 1912; UK. 26,951, 19 Nov. 1910. Crimping ends of vessel bodies and printing them. 7.

636. Martin, C. W.—6 Feb. 1911. Railway tablet staff, etc., exchanging apparatus for trains; improvements on No. 272 of 1910. 1.

637. Mansfield & Sons, Ld.—18 April 1911. Oil gas generator, details of retort, oil feed, pipes and gasholder. 4.

638. Clayton, H. R.—19 Jan. 1911. Gas fired stove for melting lac in bags. 1.

639. Das, U. N.—Hinges.

640. Tesla, N.—27 March 1911; UK. 24,001, 17 Oct. 1910. Fluid propulsion by rotary engines and motors of special design. 2.

641. Gill, H. D.—10 June 1911. Oil or gas engines with control of oil or gas supply by governor. 1.

642. Barooah, D. C.—Wells.

643. Barooah, G. N.—22 Aug. 1911. Flying machines with ailerons or stabilising planes connected to a hanging seat. 1.

644. Benson, R. S., & Head, Wrightson & Co., Ld.—19 Jan. 1911; UK. 21,253, 17 Sept. 1909. Coal washing machine of the shaking trough type similar to No. 625 of 1910. 1.

645. Nogier, T.—6 April 1911. Water and other liquids are sterilized by subjection to rays of short wave length such as those from mercury vapour lamps. 1.

646. Kunst Plastik Gesellschaft m. b. H.—14 July 1911; UK. 4975, 1 March 1909. Composition of cement, plaster of paris, colouring matter, glue, oil, soap and varnish, etc., for making relief coatings; and a flexible mould for impressing the relief.

647. Good Inventions Co.—30 Aug. 1911. Combing machine for fibres direct from the bale. 5.

648. Hill, J. A., Schofield, A., & Hadfield, S.—21 Feb. 1912; UK. 12,073, 17 May 1910. Furnace fire bridge with transverse bars and forming a sloped continuation of the grate. 1.

649. Molony, F A., & Remfry, H. G.—14 July 1911. Railway rail joints with rail ends cut partly square and partly at an angle. 1.

650. Farbwerke vorm. Meister Lucius & Brüning.—7 Feb. 1911; UK. 13,485, 3 June 1910. Para-oxyarylarsenic acid derivatives of therapeutical value are made by nitration and reduction processes.

651. Wiart, E.—21 Feb. 1911; UK. 25,106, 28 Oct. 1910. Steam generating plant of the instantaneous type with steam superheaters. 1.

652. Mills Equipment Co., Ld.—26 Jan. 1911; UK. 27,341, 24 Nov. 1910. Cartridge carriers with separate pockets of woven material. 1.

653. Nightingall, V.—10 April 1912. Electric cooking and water heating appliances. 4.

654. Hellburg, P.—6 March 1911; UK. 8416, 7 April 1910. Spinning thread, twine, etc., from strip of paper or paper and fabric, means for applying adhesive on one side and damping both sides of the strip. 1.

655. Hellburg, P.—6 March 1911; UK. 8417, 7 April 1910. Spinning several threads from a single web or strip of paper. 1.

656. Drage, J.—6 March 1911. Filtering machines for ore slimes, etc., of the wheel type. 3.

657. Willis, P. R. J.—Excavating.

658. Whitney, A. N.—10 Oct. 1911; UK. 28,908, 10 Dec. 1909. Targets with moving figures, etc. 4.

659. Levick, J. (Jr.).—26 Jan. 1911; UK. 27,738, 29 Nov. 1910. Cooling devices of the tattie type for railway vehicles, houses, etc. 4.

660. May, J.—21 July 1911. Cooler for liquids with annular chamber, pipe, coils, reservoir, taps, etc. 1.

661. Bauert, W. H.—2 Feb. 1911. Railway signalling devices with treadles for cutting off steam and applying brakes. 1.

662. Bates, J. W.—6 March 1911. Fumigating, etc., apparatus with lamp and vaporiser. 1.

663. Malloch, J. M.—28 July 1911; UK. 3955, 18 Feb. 1909. Loom lay shuttle box fronts. 1.

664. Cobbold, H. R.—16 March 1911. Buckle device with two notched links for driving belts, harness, etc., personal wear, etc. 1.

665. Froudiere, A.—11 Feb. 1911. Locks of combined permutation and key type. 1.

666. Newland, C. L.—2 Feb. 1911; UK. 22,818, 6 Oct. 1909. Flushing cisterns with two compartments, common supply and separate discharge. 1.

667. Canham, R. J.—8 March 1911. Filling and weighing machines for oil cans, etc. 1.

1911.

1. W. Jackson.—8 March 1911. Tea, etc., drying machine with feeding and spreading devices for delivering tea on to the belts. 2.

2. W. D. Douglas-Jones.—8 Aug. 1911; UK. 27,451, 17 Dec. 1908. Wheels with internal pneumatic springs. 1.

3. W. R. Hebblewhite.—22 Aug. 1911. Railway vehicle couplings of automatic type movable radially to permit a draw hook to engage non-automatic link couplings. 2.

4. C. Jost.—11 Aug. 1911; UK. 27,067, 21 Nov. 1910. Air cooling and moistening device with fan and porous water holder; improvements on No. 91 of 1909 and No. 13 of 1910. 1.

5. C. A. Beldam.—8 Aug. 1911; UK. 1705, 22 Jan. 1910. Packing of metallic type for piston rods, etc. 1.

6. H: Smethurst.—8 Aug. 1911; UK. 68, 1 Jan. 1910. Carding machines for cotton, etc., with portable dust removing arrangements. 1.

7. Badische Anilin & Soda Fabrik.—8 March 1911; UK. 25,301, 31 Oct. 1910. Spray producers with tangential supply and with inspection windows. 1.

8. Monotype Machine (Colonial Patents) Syndicate, Ld.—8 Aug. 1911; UK. 16,789, 14 July 1910. Type casting machines, mechanism for adjusting the moulds and clamping devices. 3.

9. C. Tootell.—6 May 1911. Flies are allowed exit but prevented from entering buildings by open ended cones formed on or in, or attached to, windows, ventilators, etc. 1.

10. Firma Wilhelm Pahl.—8 Aug. 1911; UK. 26,173, 10 Nov. 1910. Caoutchouc is coagulated from latex with the aid of carbonic acid.

11. J. K. Bulger.—17 Feb. 1911; UK. 1868, 25 Jan. 1910. Couplings of the lock joint type for pipes. 1.

12. Société des Raccords et Fermetures Rapides "Dayol" and J. M. Dayol.—17 Feb. 1911; UK. 27,566, 26 Nov. 1910. Stoppers or plugs with bayonet action for holes, pipes, portholes, etc. 1.

13 R. F. Venner.—17 Feb. 1911; UK. 26,331, 5 Dec. 1908. Illuminated signboards with beds wired on. 1.

14. A. W. Torkington.—21 Feb. 1911; UK. 19,964, 31 Aug. 1909. Tyres of rubber cushion type with embedded articulated band or ring. Improvements on Nos. 109 and 453 of 1908. 3.

15. A. H. S. Campbell.—12 Sept. 1911. Tiles with tongues adapted to be hung under or on battens, etc. 2.

16. Woods-Gilbert Rail Planer Co.—6 March 1911. Rail dressing machine for planing railway rails *in situ*. 2.

17. E. Dapino.—21 July 1911; UK. 29,778, 20 Dec. 1909. Oil gas carburetting appliance with oil feed and air compressor. 5.

18. Skelton, A. W. C.—Railway coupling.

19. S. A. Asari.—16 March 1911. Lock for safes with thief catching devices. 6.

20. C. H. Parker.—26 Jan. 1912. Target indicator with pentagonal revolving drum and movable arm for indicating hits and direction of misses. 1.

21. R. V. Farnham.—17 Feb. 1911; UK. 27,450, 25 Nov. 1910. Gas producer of suction or pressure type with underfeed for fuel. 1.

22. J. H. Parsons.—17 Feb. 1911. Furnaces with additional supply of heated air directed above the fuel, and forms of injectors for air. 1.

23. Expanded Metal Co., Ld.—22 Aug. 1911; UK. 16,856, 14 July 1910. Expanded metal manufacture, arrangements of slits, and machinery used for bending, etc. 1.

24. Gregory, C. R., & Brown, W.—Furnaces.

25. C. H. Gray.—8 Aug. 1911; UK. 15,141, 23 June 1910. India-rubber buffers for railway vehicles, etc., of annular form with ribs, etc., and means for determining their contour. 2.

26. B. A. Kupferberg.—8 Aug. 1911; UK. 11,867, 13 May 1910. Tea drying machine of centrifugal and vacuum type with feeding arrangements. 4.

27. H. E. Evans.—11 April 1911; UK. 1164, 17 Jan. 1910. Electric lamp holder, ceiling rose, wall plug, etc., with cord grip for each conductor. 1.

28. McKenzie and Holland, Ld., & W. A. Pearce.—22 March 1911; UK. 15,831, 1 July 1910. Electromotor with clutch and brake mechanism and quick acting switch for working railway signals. 2.

29. M. Wilbuschewitsch.—22 Aug. 1911; UK. 29,891, 23 Dec. 1910. Tea is treated with extract of tea to increase the amount of extractive matter and to act as an agglutinant in the manufacture of compressed or brick tea.

30. A. R. Angus.—8 Aug. 1911. Railway signalling on and between trains electrically. 13.

31. A. R. Angus.—8 Aug. 1911. Railway signalling on and between trains electrically. 8.

32. A. R. Angus.—25 May 1912. Railway signalling on and between trains electrically. 8.

33. R. L. Muir.—6 March 1911; UK. 29,213, 16 Dec. 1910. Sawing machines of the endless chain type for wood, stone, metal, etc. 5.

34. J. A. Cooper & E. G. Smith.—1 March 1912. Ratchet winch device for hauling, lifting, etc. 1.

35. R. Marot.—28 Feb. 1911. Cocoanut fibre removing appliance with cutting knives. 1.

36. R. Marot.—28 Feb. 1911. Sulphur dioxide for disinfecting, fire extinguishing, etc., is mixed with air after expansion from the liquid in tubular heating apparatus. 2.

37. E. S. G. Rees.—28 Feb. 1911; UK. 21,555, 21 Sept. 1909. Ejectors, condensers, air compressors, etc., in which air or gas is entrained by sub-divided jets which pass into expanding passages in fixed or rotary apparatus. 3.

38. D. Radford.—9 June 1911. Locking railway wagon doors by a screw locking device connected by a chain to the vehicle couplings. 1.

39. F. Jacoviello.—23 Feb. 1911; UK. 7184, 22 March 1910. Electric high frequency, oscillatory currents for wireless telegraphy, etc., are produced in an arc with air currents through the electrodes. 1.

40. S. W. Turner.—10 April 1911; UK. 3215, 9 Feb. 1910. Typewriter escapement mechanism with control of spacing and movement of carriage in either direction for Turkish and Arabic writing. 2.

41. Skelton, B. H.—Water heater.

42. W. Jackson.—11 April 1911. Tea drying apparatus with leaf discharge door arranged to prevent entrance of air. 1.

43. W. Jackson.—11 April 1911. Tea drying apparatus arranged for control of the hot air supply. 1.

44. G. A. Betulander.—8 Aug. 1911; UK. 1946, 26 Jan. 1910. Telephone automatic exchanges for double wire telephone systems. 2.

45. A. Eilchengrün.—8 Aug. 1911; UK. 1441, 19 Jan. 1910. Celluloid-like bodies are produced by dissolving cellulose acetate in mixed solvents with the aid of heat.

46. W. A. Freymuth.—30 Aug. 1911; UK. 1071, 14 Jan. 1911. Lac in silk-like form is produced between revolving drums or bands instead of reciprocating plates as described in No. 472 of 1910. 2.

47. A. Spencer.—16 May 1911; UK. 3503, 12 Feb. 1910. India-rubber packing rings for piston rods of railway vacuum brake apparatus, etc., of various forms with beaded bearing surfaces. 1.

48. C. Watson & R. A. S. Paget.—8 March 1911; UK. 9102, 14 April 1910. Springs of helical form with right and left hand helices formed from a V-shaped bar for railway buffers, draw gear, etc. 1.

49. H. F. Metcalfe.—6 March 1911; UK. 30,095, 28 Dec. 1910. Metal tube flanging tool. 1.

50. Kharak Singh.—5 May 1911. Water lift of Persian wheel type as described in No. 211 of 1910 with special arrangement of bearings and construction of chain. 5.

51. C. W. Bland.—3 March 1911; UK. 24,095, 20 Oct. 1909. Gas burners of inverted incandescent type, arrangement of air inlet and shield. 1.

52. F. Ringrose.—3 March 1911; UK. 13,471, 9 June 1909. Lubricators with double acting pump and stirrers. 2.

53. A. E. Bourcoud.—16 May 1911; UK. 676, 10 Jan. 1910. Iron and other metals are reduced by gases in rotary or other furnaces worked in conjunction with electric or other melting furnaces. 1.

54. Youlten's "Onyx" Process (International), Ld., & W. Youlten.—16 May 1911; UK. 366, 6 Jan. 1910. Fibre is freed from dirt and other separating operations performed in a revolving drum and comb conveyor or stirrer machine. 1.

55. Techno-Chemical Laboratories, Ld.—22 Aug. 1911; UK. 16,375, 13 July 1909. Milk is desiccated or condensed by spraying it into dry or heated carbon dioxide mixed or not with steam. 2.

56. W. A. Bone, J. W. Wilson, & C. D. McCourt.—8 Aug. 1911; UK. 4362, 22 Feb. 1910. Steam generators, water heaters, etc., fitted with tubes, packed with refractory material in which gaseous mixture is burnt. 3. Converted into a patent.

57. Badische Anilin & Soda Fabrik.—Ammonia.

58. Badische Anilin & Soda Fabrik.—Ammonia.

59. Way, E.—Lamps.

60. W. J. Tinline.—16 March 1911. Tap for gas pipes, etc., with cut out plug normally held out of action by fusible metal. 1.

61. Jellal-ud-Din.—Printing.

62. F. D. Pudumjee.—30 June 1911; UK. 1532, 20 Jan. 1911. Gramophone records are produced by photographic methods on a revolving plate by a beam of light affected by the receiving membrane. 1.

63. Société Pour L'Exploitation Des Extincteurs D'Incendie (Systeme Abbe Daney).—4 April 1911. Fire extinguishing apparatus employing liquid carbonic acid, nitrogen, and a solution of aluminium nitride and calcium cyanamide. 1.

64. H. St. J. Mills.—22 April 1911; UK. 3828, 16 Feb. 1910. Cooking apparatus for camp use with the boiler mounted on trunnions on a wheeled vehicle. 1.

65. E. J. M. Madero.—8 Aug. 1911. Rotary engines of the annular chamber type. 2.

66. Clancy Metals Process Co.—4 April 1911. Ore treatment process using amides and cyanogen.

67. S. & J. Schilgen.—22 May 1911; UK. 28,164, 3 Dec. 1910. Spinning machinery with several rows of spindles radially on a rotatable rail. 2.

68. Double, J. F.—Locks.

69. F. B. Stratton.—5 Aug. 1911. Cotton gin with revolving instead of reciprocating knives. 2. Converted into a patent.

70. P. A. Ransom.—22 Aug. 1911; UK. 3826, 16 Feb. 1910. Pulleys, fly wheels, etc., with H section arms. 1.

71. Palatine Automatic Loom Co.—22 Aug. 1911; UK. 584, 10 Jan. 1910. Looms with automatic re-shuttling apparatus. 5.

72. A. J. Billows.—11 April 1911; UK. 15,378, 27 June 1910. Aërating and bottling apparatus adaptable for aërating liquids on draught. 2.

73. T. H. Parker.—17 March 1911; UK. 15,716, 30 June 1910. Motor cars with all wheels arranged for driving, steering and braking. 3.

74. F. Deimel.—17 March 1911; UK. 21,416, 14 Sept. 1910. Igniter device with lamp and friction sparker. 1.

75. British Westinghouse Electric and Manufacturing Co.—17 March 1911; UK. 15,170, 23 June 1910. Electric alternating current meters of the induction type. 1.

76. Fuzulahmed.—Water-lift.

77. E. McLean.—29 March 1911; UK. 478, 7 Jan. 1911. Steam boiler furnaces with draught or fuel regulation by pressure or temperature, etc., of steam. 5.

78. R. Moss & William Moss & Sons, Ld.—29 March 1911; UK. 2666, 2 Feb. 1910. Reinforced concrete beams, floors, etc., with reinforcement of rolled beams having loops, etc., attached. 1.

79. C. G. H. Danby & F. T. LeFeuvre.—23 Sept. 1911. Railway vehicle seats with folding backs convertible into sleeping berths. 3.

80. Sukul, M.—Deep boring.

81. D. H. Dighe.—14 July 1911. Lamp of the oil vapour incandescent type with central independent heater for the vaporiser controlled by a screw valve. 2.

82. G. T. Kain.—17 June 1911. "Joy wheel" or revolving table on which persons sit until thrown off centrifugally. 1.

83. W. G. Balls.—20 June 1911; UK. 10,542, 29 April 1910. Bottle neck with recesses or indentations into which the capsule is indented. 1.

84. McElroy Shepherd Co.—27 Feb. 1912. Cement and concrete are applied by projecting the solids with sufficient water into place, the materials being mixed at the time of projection. 6.

85. Payne, C. G.—Perpetual motion.

86. O. B. Achard.—8 Aug. 1911. Coffee pulping machine with sieve driven therefrom. 1. Converted into a patent.

87. Mills Equipment Co.—19 April 1911; UK. 1432, 19 Jan. 1911. Belts, bandoliers, etc., with adjustment for length. 1.

88. Mills Equipment Co., Ld.—26 May 1911; UK. 1431, 19 Jan. 1911. Cartridge belt of woven material for machine guns. 1. Converted into a patent.

89. J. G. Maughan.—12 April 1911. Lattice gate with catch and spring for mine cages. 1.

90. I. H. Storey.—22 Aug. 1911; UK. 9635, 23 April 1909. Aëroplanes, construction of planes, folding and other frames and other details. 2.

91. I. H. Storey.—22 Aug. 1911; UK. 28,203, 3 Dec. 1909. Aëroplane with the driving, steering and seating arrangements as a unit separable from the framework. 1.

92. M. Boucherie.—2 Sept. 1912. Sacks and materials therefor are treated by processes similar to those used for preserving wood.

93. R. P. Doudney.—30 March 1911. Carburetting apparatus with bellows, air bell carburetter and oil feed. 1.

94. J. Levick.—30 March 1911. Folding lavatory basins with anti-splash fittings. 1.

95. J. Levick.—30 March 1911; UK. 23,829, 14 Oct. 1910. Flushing cistern for lavatories, etc., with valves operated from the seat or by hand to give one or two flushes. 3.

96. J. Levick.—30 March 1911; UK. 21,185, 12 Sept. 1910. Flushing cistern for lavatories with valves operated from seat and by hand to give preliminary and main flush. 4.

97. H. Beaucourt.—30 March 1911. Horn signal for motor cars supplied with air by pump frictionally driven from the fly wheel. 2.

98. J. Gerlache.—30 March 1911; UK. 8176, 5 April 1909. Wood is treated for preservation with a solution of copper and zinc salts containing free ammonia.

99. G. S. Hunter.—30 March 1911; UK. 14,173, 16 June 1909. Printing and delivering adhesive or other labels, tickets, etc. 1.

100. G. S. Hunter.—30 March 1911; UK. 14,433, 19 June 1909. Ticket and label making, printing and stamping machine. 1.

101. C. H. Ellis & E. H. Heinke.—30 March 1911; UK. 28,800, 9 Dec. 1909. Internal combustion engine with four or more opposed cylinders, arranged H fashion with crank shaft driven by a sleeve sliding on the bar of the H carrying the pistons. 1.

102. Runchhoddas, P.—Advertising and displaying.

103. H. H. Tarver.—11 April 1911; UK. 1335, 18 Jan. 1910. Rubber waste and like material is subjected to heat and the action of acid fumes.

104. O. V. Thomas.—30 May 1911; UK. 28,069, 2 Dec. 1910. Electric insulating material composed of mica, resin, and resin or other oil.

105. C. A. Marchant.—31 Aug. 1911. Bullets for sporting purposes made with parts of different hardness and with a gas check band. 1.

106. International Precipitation Co.—6 April 1911. Separating liquids, such as oil and water in emulsion, with the aid of wetted septa and electricity. 1.

107. K. C. Das.—9 Aug. 1911. Bicycle with safety props. 1.

108. F. Bajer.—30 Aug. 1911; UK. 17,866, 27 July 1910. Knotter for weaver's use. 2.

109. N. W. L. Brown.—22 Dec. 1911; UK. 5975, 10 March 1910. Oil press boxes. 1.

110. Crompton & Co., J. C. Macfarlane & H. Burge.—18 April 1911; UK. 7488, 26 March 1910. Electric motor or generator with the yoke placed longitudinally of the spindle and removable pole pieces. 1.

111. Railless Electric Traction Co.—19 April 1911; UK. 764, 12 Jan. 1909. Electric trolley arm arrangements for electric traction. 2. Converted into a patent.

112. Baron Schrottky de Schrottzyuski. Indigo.

113. V. Drewsen.—8 Aug. 1911; UK. 5157, 1 March 1911. Fibre for paper pulp, textile processes, etc., is produced from wood and other fibre-yielding material by treatment with alkali polysulphide, sometimes followed by elimination of the sulphur.

114. E. K. Neame.—12 Oct. 1911; UK. 15,770, 6 July 1909. Lock of permutation type adapted to be reset by hand. 1.

115. C. B. Hadengue and E. Simmons.—19 June 1911. Mowha flower treatment for extraction of juice. 1.

116. A. E. Tilburn.—22 Aug. 1911. Brush or pad with reservoir attachment for supplying polish, gum, etc. 1.

117. D. Mackay.—12 April 1911; UK. 28,091, 2 Dec. 1909. Ship trim, draft, etc., determined by special scales applied to water level tubes. 2.

118. Gum Tragasol Supply Co.—8 Aug. 1911; UK. 5018, 28 Feb. 1910. Gum tragasol and other gummy matters are precipitated from solution by tannic acid. Reference is made to No. 300 of 1906, No. 56 of 1909 and No. 476 of 1910.

119. C. Whalley.—22 April 1911; UK. 7545, 26 March 1910. Looms of circular type. 4.

120. J. C. Preston.—22 Aug. 1911. Vaporizer for oil vapour lamps and stoves. 1.

121. J. E. Tatham.—10 Oct. 1911. Cinematograph films, etc., are prevented from taking fire by jets of carbonic acid, air, etc. 1.

122. F. Kreissl & C. Seibert.—30 Aug. 1911; UK. 3363, 9 Feb. 1911. Fibrous material is retted or boiled to soften it, and then boiled under pressure with soda or alkaline solution and in some cases with breach. Fibre for spinning or paper manufacture are recovered by washing and glue is a bye-product.

123. M. & J. H. White.—22 May 1911; UK. 10,357, 27 April 1910. Gas producer using wood refuse. 1.

124. Race, E. J.—Railway brakes.

125. A. C. Evans.—26 May 1911. Cooking range or *chula* built up of angle and sheet iron with chimney in sections. 1. Converted into a patent.

126. Consolidated Brake and Engineering Co. & E. S. Luard.—25 April 1911; UK. 6300, 12 March 1910. Pistons secured on piston rods by a screw joint and a finer threaded lock nut. 1.

127. Viscose Development Co.—25 April 1911; UK. 14,194, 11 June 1910. Caps or seals for bottles, etc., hollow articles such as boxes, etc., are prepared from hydrated cellulose esters or derivatives.

128. Apte, K. K.—Cooking appliances.

129. G. W. Wyles, Saxby & Farmer, Ld., & Saxby & Farmer (India), Ld.—30 Aug. 1911. Concrete blocks, plain or reinforced, for use in connection with railway point and signal rods, wires, etc. 5.

130. J. E. Preston.—25 April 1911; UK. 26,683, 17 Nov. 1909. Electric battery for reversible type with means for sealing the cell. 1.

131. P. Mecke.—20 April 1911. Cement, plaster, etc., is waterproofed by dressing or mixing with a solution of carbon hydrates in sulpho-sebate of ammonium with or without thickening additions.

132. Phonofilm Co.—20 Dec. 1911; UK. 13,064, 3 June 1909. Gramophone records consisting of a thin flexible annulus and a holder. 1.

133. Musgrave, B.—Steam generators.

134. A. F. Halstead & A. C. Rogerson.—22 April 1911; UK. 18,331, 3 Aug. 1910. Tool for riveting boiler stays, etc. 1.

135. A. F. Halstead & A. C. Rogerson.—22 April 1911; UK. 25,630, 4 Nov. 1910. Stayheads in locomotive fire boxes made with flattened top and steep sides by a special riveting tool. 1.

136. Karam Singh & Son.—Buckets.

137. J. Schiesser.—5 June 1911. Knitted goods with pattern produced by thread, having different appearances on its length, guided to appear on the face. 1.

138. A. Bertelli.—10 Nov. 1911; UK. 23,758, 13 Oct. 1910. Water, etc., lifts on the air lift system. 4.

139. H. G. Reinstein.—9 Feb. 1912; UK. 25,108 of 1909, 31st Oct. 1908. Furniture made of corrugated, etc., pasteboard. 1.

140. Price-Campbell Cotton Picker Co.—20 April 1911. Cotton picking machine, details of conveying and elevating mechanism. 2.

141. H. Hodsdon.—30 Aug. 1911. Enumerating machines or totalisators arranged for issuing tickets and producing a record at the registers. 3.

142. G. Foreman & W. McLellan.—23 Oct. 1911. Spinning, rove stop motions. 2.

143. V. V. V., G., V., C. & M. del Prato.—1 May 1911; UK. 27,570, 26 Nov. 1910. Fibre producing materials and other fibres are treated with boiling solutions of sodium bicarbonate and other solutions followed by washing and mechanical treatment to remove gum, and to scour, bleach, etc., the material. 2.

144. G. L. Davies & W. E. W. Richards.—1 May 1911; UK. 16,908, 20 July 1909. Tar and other liquid hydrocarbons and heavy oils are freed from lighter constituents by treatment with acids and lighter oils, followed in some cases by washing with water and by aëration to remove sulphur.

145. Price-Campbell Cotton Picker Co.—1 May 1911. Cotton picking machines with steering and plant lifting attachments. 2.

146. Mills Equipment Co.—27 April 1911; UK. 7767, 31 March 1910. Military equipment, connection of sling and other members. 1. Converted into a patent.

147. L. Grünhut.—3 May 1911. Loom of multiple type with superposed shuttles. 2.

148. Kirk & Co.—20 Oct. 1911. Loom pickers with metal reinforcement at the eye. 1.

149. C. F. Hutchinson & W. S. Jeffares.—27 April 1911. Channel or gutter with hinged sections for use in tapping trees. 1.

150. Price-Campbell Cotton Picker Co.—1 May 1911. Cotton picking machines with travelling gathering fingers. 2.

151. T. Flintoff.—18 Aug. 1911; UK. 9650, 20 April 1910. Window sashes with rack and pinion balancing gear. 1.

152. R. C. Child & H. E. D. Lloyd.—27 April 1911; UK. 8532, 8 April 1909. Printing and lithographic inks are prepared from coal, etc., by grinding and air separation. 1.

153. Gulam Hussain, Nabi Bakhsh.—5 Aug. 1911. Cricket bats with splices in the handle. 1.

154. Paral, M. N.—Cooking appliances.

155. Cedford Gas Process Co.—21 Nov. 1911; UK. 17,017, 21 July 1909. Synthesis of methane by catalytic action on hydrogen and carbon monoxide, the latter prepared from Mond gas, etc., by a cooling process to separate sulphur compounds, etc.

156. Société Generale des Nitrures.—21 Feb. 1912; UK. 29,299, 16 Dec. 1910. Electric furnaces of revolving type, specially for manufacture of aluminium nitride. 1.

157. G. A. Meade.—25 May 1911. Railway signalling, carrier for ball voucher block tokens. 2.

158. E. Feuillette.—13 Oct. 1911; UK. 4409, 21 Feb. 1911. Retting process for flax, hemp, etc., involving a treatment in mechanically handled bundles and a limited supply of water at regulated temperature. 1.

159. M. J. Higgins.—4 May 1911. Horse race starting apparatus. 2.

160. H. A. Humphrey.—29 June 1911; UK. 7824, 31 March 1910. Pumps of the direct explosion or Humphrey type. See also No. 421 of 1907, Nos. 272, 273, 274 of 1908 and No. 182 of 1910. 1.

161. G. E. Holland.—7 June 1911; UK. 3608, 14 Feb. 1910. Loading and unloading coal and other cargo by a combined conveyor and an elevator. See also No. 583 of 1909. 1.

162. Price-Campbell Cotton Picker Co.—6 May 1911. Cotton picking machines, lubricating devices for the picking fingers and carriers. 1.

163. Bidree, A.—Spinning.

164. Price-Campbell Cotton Picker Co.—6 May 1911. Cotton picking machine, mountings and adjustments for the pickers. 2.

165. Kharak Singh.—Grinding mill.

166. J. Sartig.—6 May 1911; UK. 11,460, 9 May 1910. Tobacco is freed from nicotine by treatment with ammonia and with steam at reduced temperature and pressure. 1.

167. C. B. Jacobs.—30 Aug. 1911. Pumps for artesian and like wells capable of insertion or withdrawal without disarranging the working parts. 1.

168. Price-Campbell Cotton Picker Co.—6 May 1911. Cotton picking machines, power transmission gearing. 3.

169. R. P. Dendney.—4 May 1911; UK. 28,694, 8 Dec. 1909. Carburetting apparatus with air pumping bells actuated hydraulically. 5.

170. C. F. Jenkins.—4 May 1911; UK. 28,727, 8 Dec. 1909. Paper box, etc., glueing, etc., machine. 2.

171. I. R. V. Wart.—4 May 1911; UK. 6000, 10 March 1910. Cattle branding instrument with adjustable needles. 1.

172. R. Stock.—4 May 1911; UK. 4937, 27 Feb. 1911. Motor ploughs with differential gear and all shares delivering on one side, arrangements for equalising pressure and steering. 1.

173. E. S. Donisthorpe.—6 May 1911; UK. 3512, 12 Feb. 1910. Synchronism means for machines having different powers and speeds such as cinematographs and phonographs. 1.

174. A. G. Spinnerei und Weberei Steinen.—22 Aug. 1911; UK. 4479, 22 Feb. 1911. Loom automatic spool changing mechanism. 1.

175. C. Kratt.—22 Aug. 1911; UK. 25,296, 3 Nov. 1909. Electric resistance heating devices for water employing the conductor in the form of granules contained in tubes, etc. 2.

176. M. Hohl.—7 July 1911. India-rubber latex is treated with pyroligneous acid.

177. Price-Campbell Cotton Picker Corporation.—6 May 1911. Separating leaf and seed cotton. 1.

178. S. Radcliff.—22 Aug. 1911. Radium ores treated by combined dry and wet methods for recovery of radium and other bodies.

179. J. M. Lofthouse and E. R. Booty.—18 Aug. 1911. Carburettor with valve automatically controlling the oil supply by the gas withdrawn. 1.

180. F. H. Maynard.—9 Oct. 1911. Husking and pounding machine of the pestle and mortar type. 1.

181. Mills Equipment Co.—11 May 1911; UK. 5387, 3 Mar. 1911. Pistol holsters of specifically woven fabric. 2. Converted into a patent.

182. E. J. Way & A. J. Arbuckle.—17 May 1911. Ore treating apparatus for continuous agitation, aëration and dissolving processes with cyanide solutions, etc. 5.

183. N. P. Pearse.—18 Aug. 1911; UK. 17,730, 30 July 1909. Cotton gin rollers in sections, each built up with a core and covering. 1.

184. J. A. M. Watson.—13 Dec. 1911; UK. 7987, 30 March 1911. Hinge joints for split tubular articles applicable to tent poles and to ladders as described in No. 461 of 1908. 1.

185. Watson, J. A. M.—Boxes.

186. H. W. Arnott.—30 Aug. 1911. Railway signals with one winch to work two or more signals and locking arrangements. 1.

187. G. W. Sutton.—15 Jan. 1912; UK. 6702, 17 March 1911. Tea drying machines in which the tea is moved and turned by scraper chains successively over heated shelves, one below the other, and then carried by trays over plates, etc., heated to a lower degree. 1.

188. L. Friedrichs.—11 May 1911; UK. 18,202, 30 July 1910. Valves or cocks, particularly safety interconnected gas cocks for gas stoves. 1.

189. Birmingham Metal & Munitions Co., Ld., & J. H. Barker.—22 Aug. 1911; UK. 2834, 3 Feb. 1911. Explosives in cord, tube, etc., form when broken are jointed so as not to affect the ballistic strength.

190. Birmingham Metal & Munitions Co., Ld., & J. H. Barker.—22 Aug. 1911; UK. 2835, 3 Feb. 1911. Explosives of cord or similar form are laid into a cable or strand to facilitate cartridge loading.

191. George Hattersley & Sons, Ld., & W. J. Monk.—20 Dec. 1911; UK. 13,362, 4 Jan. 1909. Shuttle actuating mechanism for small ware or tape looms. 1.

192. F. M. Field & D. A. Skene.—14 Aug. 1912; UK. 29,433, 19 Dec. 1910. Railway signalling, etc., with treadle apparatus on permanent-way for applying brakes, cutting of power and giving alarm on engine. 1.

193. Paal, C.—28 May 1912; UK. 5188, 1 March 1911. Fats and unsaturated fatty acids are reduced by catalytic action.

194. H. Grob.—9 April 1912; UK. 996, 13 Feb. 1911. Belt tensioning arrangements for belt driven dynamos on trains. 1.

195. J. Chudleigh & J. W. Fell.—28 May 1912. Railway brake apparatus of the Westinghouse type with supplementary air lock valve and connections. 1.

196. Kennedy, L. B.—Rifle carrier.

197. J. H. Stirling.—23 May 1911; UK. 10,445, 28 April 1910. Lubricators of the forced feed type, means for returning the piston, etc. 2.

198. J. Hall.—20 Oct. 1911. Reinforced concrete pipes made with a steel tube wound with wire, etc., and covered internally and externally with concrete; also joints therefor. 2.

199. Sahai, R. N.—Loom.

200. W. F. K. Stock.—18 May 1911; UK. 10,511, 29 April 1910. Fertilizer, insecticide, and fungicide composed of spent oxide from gas manufacture, carbon waste from paper manufacture, and naphthalene.

201. Collie, J. A.—Engines.

202. A. T. Crosher.—10 Nov. 1911. Electric lamp sockets or holders. 1.

203. G. F. W. Bapty.—18 May 1911. Dish attachment for supporting cutlery. 1.

204. J. Hampson.—18 May 1911; UK. 30,394, 31 Dec. 1910. Sealing letters, etc., receptacle for melting sealing wax, seal and sealing wax pellets. 2.

205. Henning Process Sugar Extraction Co.—20 July 1911. Sugar manufacture, treatment of molasses from one strike with the next strike to recover sugar.

206. R. Derry.—21 July 1911; UK. 6858, 18 March 1911. India-rubber apparatus for exposing a film of latex to smoke for coagulating and curing the rubber. 1.

207. O. Frühling.—22 Aug. 1911; UK. 10,068, 25 April 1911. Hopper barges, ship's holds, etc., are emptied or discharged by a flushing system. 2.

208. J. Rostron.—21 Dec. 1911; UK. 16,688, 29 April 1909. Loom stop motion and take-up control devices for reshuttling looms, see also No. 514 of 1908. 3.

209. A. Schleiffer.—29 Dec. 1911; UK. 6445, 14 March 1911. Resin is extracted from india-rubber by digestion with phenol, cresol and other solvents.

210. J. W. Morrow & B. Edwards.—30 May 1911. Posts for fencing, telegraphs, etc., with anchor plates. 1.

211. J. Kay.—30 May 1911; UK. 972, 14 Jan. 1910. Printing machine for sarees, scarves, shawls, etc., with means for preventing overrunning. 2.

212. C. G. L. Judge, Saxby & Farmer (India), Ld., & Saxby & Farmer, Ld.—30 Aug. 1911. Electric block instruments for railway signalling using one line wire. 3.

213. A. R. Angus.—4 March 1913. Railway signalling on and between trains and application of brakes by mechanical and electrical connections. 7.

214. L. W. Alexander & J. W. Hall.—14 Feb. 1912; UK. 9117, 12 April 1911. Bottle stopper to prevent refilling. 1.

215. W. G. Blair, Saxby & Farmer (India), Ld., & Saxby & Farmer, Ld.—30 Aug. 1911. Railway switch levers adapted to rest flush on the ground. 1.

216. J. L. Motha.—19 June 1911. Decorticating machine for stems of palmyra palm leaves with toothed roller and feed rolls. 1.

217. Babcock & Wilcox, Ld.—1 June 1911; UK. 4468, 22 Feb. 1911. Furnace stokers of the chain grate type with grate bars carried on bearers provided with rollers running on guides. 2.

218. A. J. Warne-Browne.—7 June 1911; UK. 6722, 17 March 1910. Boxes or cases for transport of goods, having an inner spring supported case with adjustments for the springs. 4.

219. F. Harrington.—18 Aug. 1911. Bolt with eccentric head used with a special form of washer for use where a stud bolt is not applicable. 1. Converted into a patent.

220. H. S. Wildeblood.—23 June 1911; UK. 11,334, 7 May 1910. Aëroplanes with automatic lateral balancing planes. 1. Converted into a patent.

221. L. H. Giddings.—28 Nov. 1911. Crematory with electric resistances for heating.

222. Rubber Substitute (1910), Ld.—28 Nov. 1911; UK. 9636, 20 April 1910. Rubber substitute prepared from cotton or cellulose soaked in a fatty acid, such as butyric acid, by adding vegetable or mineral oil, chloride of sulphur and other materials.

223. Alla Bux and Abdul Rahim.—26 July 1911. Sugarcane mills with device for lubricating the axles. 1. Converted into a patent.

224. G. T. Strickland.—29 Nov. 1911. Sun glasses, etc., attached to topees, helmets, etc. 1.

225. Morrison, W., & Jowitt, J. E.—Window stop.

226. Dey, M. L.—Safes.

227. J. Young.—1 June 1911; UK. 1260, 18 Jan. 1910. Opening cotton and other fibres, form of grid bars and their adjustment. 1.

228. P. Faiella.—1 June 1911; UK. 4920, 27 Feb. 1911. Telegraphic system using terminal batteries. 1.

229. T. Nogier.—1 June 1911. Water, etc., sterilizing apparatus using ultra violet rays. 3.

230. L. H. Clegg.—5 June 1911; UK. 12,800, 26 May 1910. Felt manufacture and treatment. 1.

231. C. Wester.—29 Nov. 1911; UK. 18,622, 12 Aug. 1909. Explosives consisting of ammonium perchlorate, nitrates, nitrobenzine, sawdust and vaseline.

232. L. Felizat.—28 Nov. 1911; UK. 4935, 27 Feb. 1911. Wood charcoal is made from sawdust and other waste woody products in a special form of oven with feeding and cooling arrangements. 3.

233. Felizat, L.—Fuel.

234. P. Kehr.—28 Nov. 1911. Aërating and bottling machine for two or more bottles, see also No. 30 of 1905. 1.

235. M. Hohl.—7 July 1911. Pyroligneous acid for coagulating india-rubber latex is distilled from the mixed products of wood distillation.

236. Jaorawala, H. M.—Railway signalling.

237. W. E. Harding & J. Hunter.—8 June 1911. Chuck for rock drills. 1.

238. A. O. Jones.—8 June 1911; UK. 12,923, 27 May 1910. Coke ovens of the vertical type. 5.

239. W. S. Simpson & H. Oviatt.—8 June 1911; UK. 9163, 17 April 1909. Iron and steel manufacture by a direct process from oxide ores smelted with sodium or other chloride, silica and other additions.

240. W. Jackson.—21 July 1911. Tea, etc., drying apparatus with a tilting feed plate at one end. 1.

241. Mechanical Decarbonising Syndicate, Ld.—21 Feb. 1912; UK. 11,054, 10 May 1909. Cleaning appliance for cylinders, pistons, etc., of internal combustion engines. 1.

242. Mechanical Decarbonising Syndicate, Ld.—29 Nov. 1911; UK. 13,802, 7 June 1910. Scarifying and burnishing tool or appliance specially applicable for removing carbon deposits from internal combustion engines. 1.

243. E. Plantrou.—28 Nov. 1911; UK. 6855, 18 March 1911. Spinning, automatic backing off motions for doffing ring throstle frames. 1.

244. B. F. A. Saylor.—28 Nov. 1911. Paper pulp is manufactured from resinous wood by mixing with caustic soda and treatment with steam under pressure, followed by digestion in solutions of caustic alkali. Resin and turpentine are bye-products. 1.

245. Kirke, F. St. G.—Rifles.

246. Fuzulahmed Umerdeen.—19 Aug. 1911. Pumps worked by cam driven by animal gear. 1.

247. C. L. Jahory.—31 July 1911. Jewels and ornaments with means for securing the stones, etc. 1.

248. C. J. Lumsden.—15 Aug. 1911. Tiles for roofing and flooring made of reinforced concrete. 1.

249. S. S. Balasundaram Naiker.—23 Oct. 1911. Waterlift with counterbalanced tilting buckets worked by a winch. 3.

250. W. H. Perkin, F. E. Mathews & E. H. Strange.—1 Sept. 1911; UK. 9721, 21 April 1911. Caoutchouc-like bodies prepared from paraffin hydrocarbons and the manufacture of dihalogen and other derivatives of those hydrocarbons.

251. T. Cooper.—28 Nov. 1911; UK. 5271, 2 March 1910. Bearings of ball or roller type with the bearing surface constructed of hardened divided sleeves or rings. 1.

252. Auto Road Chart, Ld.—19 Dec. 1911. Route chart and location indicator for road vehicles. 6.

253. L. J. S. Evans.—20 Oct. 1911. Fire extinction in oil tanks is aided by discharge pipes to a salvage tank. 1. Converted into a patent.

254. F. Andrews.—24 June 1911. Hat fastener or pin with spiral claws. 1.

255. M. S. S. O'Connor.—3 July 1911. Railway wagon door lock and detector. 2.

256. Moir, W.—Centrifugal fans.

257. Cove, E.—Winnowing.

258. Kitson-Empire Lighting Co., Ld.—23 June 1911; UK. 8513, 5 April 1911. Vapour burning apparatus with thermostatic appliance to control the oil supply valve. 1.

259. Kitson-Empire Lighting Co., Ld.—23 June 1911; UK. 17,637, 25 July 1910. Vapour burning apparatus with thermostatic appliance to control the oil supply, especially for gravity feed incandescent lamps. 2.

260. L. Devos, A. Adelberg & N. Salomon.—23 June 1911; UK. 9921, 24 April 1911. Silver plate, etc., is cleaned by a solution of sodium and potassium carbonates in the presence of aluminium.

261. E. Belin.—23 June 1911; UK. 9556, 19 April 1911. Tachytelegraph and teletype machines, tape transmitter with single signal for each character, and photographic receiver 7.

262. Blair Atholl Aëroplane Syndicate, Ld.—20 Dec. 1911; UK. 8118, 5 April 1909. Aëroplanes, form of planes. 3.

263. Blair Atholl Aëroplane Syndicate, Ld.—20 Dec. 1911; UK. 11,021, 10 May 1909. Aëroplanes, form of planes described in No. 262 of 1911 modified for biplane machines. 1.

264. Blair Atholl Aëroplane Syndicate, Ld.—20 Dec. 1911; UK. 20,723, 10 Sept. 1909. Aëroplanes, construction of under-frames and shock absorbers. 3.

265. Blair Atholl Aëroplane Syndicate, Ld.—20 Dec. 1911; UK. 26,441, 15 Nov. 1909. Aëroplanes as described in Nos. 262 and 263 of 1911 with supplementary supporting surfaces. 1.

266. W. Paterson.—19 Dec. 1911; UK. 10,293, 30 April 1909. Water purifying and softening apparatus with tilting tank operating delivery of chemicals, etc. 2.

267. F. A. Pollard.—19 Dec. 1911; UK. 6414, 14 March 1911. Refrigerating apparatus with thermostatic control of the supply of liquefied gas. Improvements on No. 446 of 1908. 1.

268. A. Denonne.—19 Dec. 1911. Soap container or holder. 1.

269. M. Deacon, W. Gore & Palatine Engineering Co., Ld.—30 June 1911; UK. 14,487, 15 June 1910. Filtering apparatus of continuous type arranged for withdrawal, cleaning and return of the filtering material without stopping filtration. 3. Converted into a patent.

270. J Brew & P. Orr & Sons.—20 Dec. 1911; UK. 11,680, 15 May 1911. Lock and label holder for railway wagons, etc., with wire or string passed through holder and bolt when shot. 1..

271. J. Sorley.—26 Sept. 1911. Insecticide consisting of xylene, soft paraffine, sulphur, soft soap and water.

272. D. Morrison.—3 July 1911; UK. 24,658, 24 Oct. 1910. Playing cards with pips arranged domino fashion. 1.

273. W. M. Martin.—3 July 1911; UK. 4531, 24 Feb. 1909. Ores of complex types, prior to water concentration and separation processes, are moistened with a solution of an oxidising agent, such as a nitrate, and heated.

274. W. M. Martin.—3 July 1911; UK. 18,176, 6 Aug. 1909. Ores of complex types, prior to water concentration or separation processes, are treated with oxidising solutions.

275. Cove, E.—Agricultural appliances.

276. E. E. Clement.—30 June 1911. Telephone exchanges. 7.

277. D. M. Weigel.—1 April 1912. India-rubber is separated from latex by use of alternating electric currents, salt and an antiseptic such as creosote being added to the latex.

278. E. A. Rumely.—16 Nov. 1911; UK. 20,421, 1 Sept. 1910. Carburetter for oil engines with oil and water drawn in by vacuum and with adjustable inlet and outlet ports. 1.

279. Johannes, J.—Lac.

280. C. F. M. Abbott-Brown.—29 June 1911; UK. 15,817, 7 July 1909. Wheels for vehicles with solid tread and pneumatic cushion. 2.

281. A. S. Hatton.—18 Nov. 1911. Gate with counterweight and folding bars for mine cages, etc. 1.

282. G. E. B. Pritchett.—3 July 1911; UK. 15,425, 27 June 1910. Electric accumulator box covers and splash preventors. 1.

283. E. G. Hedman.—20 Dec. 1911; UK. 18,767, 18 April 1910. Weighing apparatus of automatic type. 2.

284. G. C. Fludder, A. W. Fludder & G. E. Fludder.—20 Dec. 1911; UK. 113, 2 Jan. 1909. Refractory bricks, etc., furnace linings, cements, etc., are made from silica, bauxite, magnesite, chrome ore, etc., with magnesium sulphate or silicate as a binder.

285. C. E. Baker.—20 Dec. 1911; UK. 18,452, 4 Aug. 1910. Ores containing sulphides and oxides are treated with a gaseous halogen acid and free chlorine with or without oxygen.

286. S. G. Nash.—2 Aug. 1911. Gland packing for piston rods, etc., of half cylindrical wedge ended sections with lubricating passages. 1.

287. H. Ostwald.—7 July 1911. Grinding mills of the ball type with electromagnetic attachments for lifting the balls. 1.

288. Taylor, T., Wellington, D., & Sutherland, W. A.—Locks.

289. A. Hitchon.—28 Aug. 1911; UK. 27,518, 26 Nov. 1910. Spinning ring and twisting frames with anti-ballooning devices. 2. Converted into a patent.

290. P. St. G. Kirke & F. S. Morris.—22 April 1912; UK. 27,488, 25 Nov. 1909. Nut locking device with ball lock and means for releasing. 1.

291. J. Levick.—7 July 1911; UK. 11,036, 8 May 1911. Flushing cistern for lavatories with preliminary and main flushes. Improvements on No. 95 of 1911. 1.

292. E. Hall-Brown.—7 July 1911; UK. 4124, 19 Feb. 1910. Gas producer with heat exchanger for utilising heat of gas. 1.

293. E. Hall-Brown.—7 July 1911; UK. 4125, 19 Feb. 1910. Gas producer of the rising grate type. 1.

294. E. Hall-Brown.—7 July 1911; UK. 4126, 19 Feb. 1910. Gas producers with removable grate. 1.

295. A. H. Briggs.—7 July 1911; UK. 6978, 23 March 1909. Bobbins for spinning, etc., with ends built up of rotary cut veneer. 1.

296. Genossenschaft für Textilpatente G. m. b. H.—20 Dec. 1911; UK. 10,033, 25 April 1911. Loom weft spool changing mechanism with suction device for drawing off the loose end of thread. 1.

297. J. Burdon, W. M. Burdon and M. M. Burdon.—13 March 1912; UK. 27,348, 24 Nov. 1910. Furnace with oil fuel fittings. 3.

298. J. Burdon, W. M. Burdon & M. M. Burdon.—20 Dec. 1911; UK. 29,522, 20 Dec. 1910. Oil gas producers for furnaces, etc. 5.

299. E. B. Badcock.—8 Aug. 1911; UK. 14,524, 16 June 1910. Internal combustion liquid pumps. 1.

300. J. A. Shields.—20 Dec. 1911. Cotton bolls, which have not opened owing to frost, etc., are treated by breaking, etc., to recover the cotton. 4.

301. Burrows, A. E. & A. L.—Kilns.

302. J. McLintock.—14 July 1911; UK. 9293, 20 April 1909. Axle boxes with lubricating device for railway vehicles, etc. 2.

303. A. H. Hendry & M. A. Hendry.—2 Nov. 1911; UK. 13,839, 8 June 1910. Machinery driving belts built up of short lengths. 1.

304. W. F. Perman.—20 Dec. 1911. Press of screw type with stopping and starting gear, especially for expressing juice from tea leaf. 1.

305. Miss R. Lancaster-Sutton.—9 Feb. 1912. Frame for supporting a punkah or fan over beds, etc. Improvement on No. 345 of 1909. 1.

306. Schonemann, A.—Mould.

307. W. Moir.—9 Oct. 1911. Hinges made in sections. 2.

308. W. Moir.—9 Oct. 1911. Oil vapour burner and vaporizer with strainer constructed to facilitate cleaning. 1.

309. M. E. Muirhead and A. M. Dyke.—31 Jan. 1912. Picketing, tent, etc., pegs with chisel end and screw on shank. 1.

310. W. E. Evans.—23 Oct. 1911; UK. 3871, 15 Feb. 1911. Zeolites or hydrated alumino-silicates suitable for use in softening water are prepared by fusion of alumina, alkali and silica or equivalents.

311. W. E. Evans.—23 Oct. 1911; UK. 3870, 15 Feb. 1911. Water is softened by filtration through artificially prepared zeolites (hydrated alumino-silicates) which are regenerated by salt solution. 1.

312. B. Dorner.—29 Dec. 1911; UK. 8638, 7 April 1911 Maize straw is treated with dilute acids and alkaline matter for the production of fodder for animals and cellulose for paper manufacture, etc.

313 I. David.—8 Sept. 1911. Downtake pipes for water closets, etc., are enlarged internally for a short distance to prevent rats, etc., climbing up them. 1.

314. E. E. Moore.—13 July 1911; UK. 17,037, 18 May 1911. Railway signalling, lock and indicator for staff and similar instruments. 2.

315. T. B. Powers & Eureka Clock Co., Ld.—13 July 1911; UK. 4711, 24 Feb. 1911. Clocks with electric self-winding arrangements. 2.

316. Mandal, B. K.—Winch.

317. Permanent-way Improvements Co., Ld.—28 Nov. 1911; UK. 13,022, 3 June 1909. Railway sleepers of reinforced concrete with the rail seat portions only bearing on the road bed. 1.

318. A. Trifonoff & D. Gardner.—8 Aug. 1911. Arsenic and antimony ore treatment.

319. V. Henri, A. Helbronner & M. V. Recklin-Ghausen.—10 Jan. 1912. Water sterilizing with ultra violet rays, construction and mounting of mercury vapour lamps with quartz. 2.

320. G. H. Smith, F. J. T. Bell and F. Rowland.—28 Nov. 1911; UK. 584 4 March 1909. Sewing machines of the two reel lock stitch type. 1.

321. W. Guttill, J. D. Blackwell & Cooper & Co. (Manchester), Ld.—28 Nov. 191 UK. 10,980, 10 May 1909. Cotton waste cleaning machine. 1.

322. W. Goyder, N G. Beckwith & Pistonless Hydraulic Press Co., Ld.—10 Ja 1912; UK. 2979, 7 Feb. 1910. Hydraulic press with collapsible chamb built up of steel cylinders connected by flexible material and guid therefor. 1.

323. P. Hoering.—10 Jan. 1912. Fuel blocks or briquettes made from reed plan by disintegration and moulding.

324. Wilson, T. C.—Envelopes.

325. K. C. Dass & J. L. Dhar.—16 Jan. 1912. Specific gravity balance with o pan movable on a graduated arm by a screw, used for testing gold. Converted into a patent.

326. R. R. Khullar.—6 Jan. 1912. Combined grips and "dand" exercisi apparatus. 1. Converted into a patent.

327. R. H. Field.—21 Aug. 1911. Railway chair with loose jaw attached by dovetail slide and secured by the spikes. 1.

328. Jessop & Co.—Water purifying.

329. C. F. Jenkins.—20 July 1911; UK. 5017, 28 Feb. 1911. Boxes, etc., of pap or like, means for crimping and restricting the tops of the bodies a applying cap-like covers. 1.

330. Prongless Buckle Co., Ld.—18 Aug. 1911; UK. 19,319, 17 Aug. 1910. Buckl of the link and lever type without prongs. 1.

331. L. Harris.—20 July 1911; UK. 15,961, 4 July 1910. Road vehicle sprin of the pneumatic cushion type with guides. 4.

332. L. Harris.—20 July 1911; UK. 16,901, 15 July 1910. Road vehicle sprin of the pneumatic cushion type with reinforcement for the cushion. 1.

333. R. Warwick, W. Warwick & A. Reason.—1 Sept. 1911; UK. 5949, 9 Mar 1911. Covers for rollers used in textile material woven or made as a tu and treated with specified materials.

334. J. C. Russell.—20 Jan. 1912. Hardening, tempering, etc., steel rails, ba and other articles by passing through oil and other baths arranged to gi localized action. 2.

335. A. F. J. Doutre.—17 Jan. 1912. Aëronautic machines with balanci devices. 1.

336. Chandler, H. G.—Cooking appliances.

337. Adwani, N. D., & Panjabi, P. B.—Railway vehicles.

338. G. W. Gay.—6 Sept. 1911; UK. 25,148, 29 Oct. 1910. Railway vehi couplings of automatic type operated by pressure on the buffers or hand. 1.

339. Tyer & Co., Ld.—2 Aug. 1911; UK. 21,554, 16 Sept. 1910. Railway elect block signalling instrument operated by momentary currents and givi three indications. 1.

340. W. Hiby.—2 Aug. 1911; UK. 18,922, 11 Aug. 1910. Coke oven chargi arrangements. 1.

341. J. P. Gregory.—9 Oct. 1911. Lock with bolt geared to a weighted tooth and pivoted segment. 2. Converted into a patent.

342. R. C. Child.—26 Sept. 1911; UK. 6496, 18 March 1909. Disintegrators of the impact type with worm or spiral driving gear. 1.

343. J. Thomas.—27 July 1911; UK. 23,797, 14 Oct. 1910. Furnace fire door grid automatically opened and closed gradually to supply air as required for smoke consumption when stoking. 2.

344. G. M. Parks Co.—9 April 1912; UK. 12,884, 29 May 1911. Suction cleaners with gas jet. 2.

345. G. R. Gregory & W. Brown.—20 Oct. 1911; UK. 27,920, 30 Nov. 1909. Furnace with oil firing attachments. 1.

346. K. Pandoo.—18 April 1912. Lamps of the oil vapour incandescent type, with means for heating the vaporizer. 1.

347. C. Graaff.—29 Dec. 1911; UK. 8909, 10 April 1911. Fire extinction in buildings, mines, etc., including pipe system, reservoirs, signalling and operating devices, etc. 4.

348. C. G. Adamson.—4 Sept. 1911; UK. 16,183, 6 July 1910. Shoes, etc., with removable net covering to prevent slipping. 1.

349. Glanzstoff-Fabriken, A. G. V.—Cellulose.

350. Mukerjee, R. N.—Commodes.

351. J. Gitsham.—22 Aug. 1911. Gold and silver are recovered from antimonial, arsenical and other ores by a modification of the cyanide process. 1.

352. P. Liquorish.—6 Sept. 1911; UK. 9160, 15 April 1910. Spout or removable pouring nozzle for petrol cans, etc. 1.

353. A. Mayr & J. Wallace.—5 Feb. 1912. Hot air engines with pot and displacer of German silver and with insulating joint of the pot. 1.

354. G. P. Bajpayee.—14 Aug. 1911. *Chula* or *angitthi* for cooking purposes to heat above and below. 1.

355. Print-Weave Co.—15 Aug. 1912. Photographic apparatus for producing a design built up of successive images of a unit design of any desired size. 6.

356. M. Wilbuschewitsch.—31 Jan. 1912; UK. 30,014, 24 Dec. 1910. Fats, oils, waxes, etc., are converted into like bodies with higher melting points by spraying an intimate mixture of the body with a catalyst into hydrogen under pressure in an autoclave. Applicable in manufacture of soap, candles, butter substitutes, etc. 4.

357. E. Gunnill.—28 Nov. 1911; UK. 5773, 8 March 1910. Advertising signs with letters built of three-ply wood hung on wires, etc. 1.

358. L. Felizat.—31 Jan. 1912; UK. 5010, 28 Feb. 1910. Charcoal from waste woody products are briquetted with water, silicate of soda and hydraulic lime.

359. W. F. Perman.—22 Dec. 1911. Tea manufacture—the unwithered leaf is lightly rolled, juice is expressed and ordinary rolling follows. Reference is made to the press in No. 304 of 1911.

360. Little, D. E.—Tents.

361. D. H. Todiwalla.—9 Oct. 1911. Sugar crushing rolls with revolving wire brushes for cleaning purposes. 1.

362. Lisbey, E. O.—Cleaning composition.

363. T. F. Connew.—9 April 1912. Tennis net posts, supports and tensioning devices. 3.

364. F. Schepens.—9 Jan. 1912. Washing machine for clothes with dasher and means for air circulation. 1.

365. J. O. Spong.—10 Aug. 1911. Betel nut cutting machine in which the nut is pressed against a revolving disc carrying knives. 2.

366. W. S. Simpson.—7 Sept. 1911; UK. 11,832, 12 May 1910. Electric melting furnace with a crucible in a vacuum chamber mounted on trunnions. 2.

367. County Light, Ld.—22 Aug. 1911; UK. 21,316, 18 Sept. 1909. Carburetting plant with reciprocating air and petrol pumps, carburettor and automatic control. 1.

368. County Light, Ld.—22 Aug. 1911; UK. 437, 7 Jan. 1910. Obtaining intermittent motion from a falling weight, etc., to operate the air bell of a gas plant. 1.

369. W. E. Laycock.—7 Feb 1912; UK. 16,649, 12 July 1910. Testing vacuum brakes by a portable air ejector apparatus. 1.

370. Minerals Separation, Ld.—28 May 1912; UK. 2359, 1 Feb. 1909. Ore concentration process consisting in agitating the ore with water, acid, and certain organic bodies, which produce a froth, and then collecting the froth. 1.

371. Minerals Separation, Ld.—13 March 1912; UK. 6896, 18 March 1910. Ore concentrating process, arrangement of agitators and spitzkasten for oil and other flotation processes. 1.

372. C. P. Elieson.—7 Feb. 1912; UK. 23,149, 6 Oct. 1910. Clocks, tell-tales, alarms, etc., in which the clock mechanism itself forms part of the driving weight. 2.

373. Sir C. H. A. F L. Ross.—17 April 1912; UK. 3038, 7 Feb. 1911. Firearms with extractor formed to prevent "skipping." 1.

374. Sir C. H. A. F. L. Ross.—17 April 1912; UK. 3039, 7 Feb. 1911. Firearm magazines of the automatic type. Reference is made to No. 67 of 1910. 2.

375. Print-Weave Co.—15 Aug. 1912. Designs are transferred to printing rollers by means providing for exact register. 6.

376. A. G. Linde's Eismaschinen.—14 Feb. 1912; UK. 7205, 22 March 1911. Hydrogen is separated from compressed gaseous mixtures by liquefying the other constituents and separate expansion into countercurrent heat exchangers. 2.

377. A. G. Linde's Eismaschinen.—14 Feb. 1912; UK. 9260, 13 April 1911. Hydrogen separation, additions to No. 376 above. 3.

378. F. H. Addis.—16 Feb. 1912. Railway automatic couplings of the A. B. C. type with indicator to show proper engagement. 2.

379. Willes, C. B.—Tyres.

380. G. Dubern.—15 Dec. 1911. Covers for excluding dirt from mouths of ball stoppered bottles. 1.

381. J. J. Charley.—29 Aug. 1911. Spring and shock absorber arrangements for motor cars, road vehicles, roller skates, etc. 2.

382. Lahna Singh.—Perpetual motion.

383. Atherton, P. W.—Cooling.

384. C. E. D'O. Fendall.—21 Nov. 1911. Boom of movable suspension type for arresting timber on rivers or streams. 4.

385. S. H. Farrington & The North-West Soap Co., Ld.—25 Aug. 1911. Night lights with wick holder permitting use of large wicks. 1.

386. F. Lojacono.—18 Aug. 1911. Sugarcane planter arranged for planting two or more rows. 4.

387. H. Grob.—7 Feb. 1912; UK. 2719, 8 Feb. 1911. Electric tension regulation for generators working at variable speeds, applicable for train lighting, etc., etc. 1.

388. I. David.—8 Sept. 1911. Box with hollow metal lining and cover, and airtight joint for packing opium. 1.

389. F. J. Cox & The Machine Gas, Ld.—10 Oct. 1911; UK. 28,818, 12 Dec. 1910. Air gas apparatus with automatic regulation of air and liquid supply. Reference is made to No. 11 of 1908. 1.

390. M. W. Fink & A. Kobiolke.—12 Feb. 1912. Tyres, belting, balls, diving dress, etc., are made by impregnating partly tanned leather or other material with rubber by exhaustion and pressure, or by mixing rubber with disintegrated leather, etc., and then vulcanising *in vacuo*.

391. Minerals Separation, Ld.—28 May 1912; UK. 21,857, 20 Sept. 1910. Ore concentration process by agitating the ore with water, acid, and essential oils to produce a froth.

392. H. W. A. Bevis & Naraindass.—10 April 1912. Tent with gable end on sloping side. 1.

393. A. Lang.—25 Oct. 1911; UK. 426, 6 Jan. 1911. Cartridge or shot cases built up of nickel and aluminium or other metals, the two parts being separately and partially made and then placed together and completed.

394. Hukam Chand.—Pumps.

395. A. F. Gardner.—24 Aug. 1911; UK. 15,296, 25 June 1910. Tea and coffee pots with suspended infuser. 1.

396. L. Eck, H. Klahn & E. Veith.—24 Aug. 1911; UK. 7329, 23 March 1911. Wood is ornamented by use of a priming coloured layer, a grained coating and then varnished.

397. Trumble Refining Co.—20 Oct. 1911; UK. 14,161, 14 June 1911. Evaporation apparatus of the thin film type for refining oil, etc. 1.

398. W. Hirsch.—11 Sept. 1911. Bottle washing machine. 1.

399. W. Schütze.—21 Feb. 1912. Cotton plants are treated by grafting and regrafting, specially sown plants.

400. C. E. F. M. Mainwaring.—21 Feb. 1912; UK. 17,919, 3 Aug. 1909. Looms for weaving mats face to face as double pile fabrics from coir yarn, etc. 2.

401. Société Anonyme Electrometallurgique Procédés Paul Girod.—21 Feb. 1912; UK. 13,731, 8 June 1911. Electric furnaces supplied with three phase currents. 1.

402. J. Mucklow.—27 Aug. 1912. Tea sifting, sorting, and grading apparatus with superposed vibrating sieves. 1.

403. H. A. Humphrey.—31 Aug. 1911; UK. 21,849, 20 Sept. 1910. Pumps of the direct explosion or Humphrey type. 1.

404. P. Schilowsky.—31 Aug. 1911; UK. 12,021, 21 May 1909. Gyroscopic arrangement for monotrack vehicles. 1.

405. Ahmad Shah.—Pails.

406. H. L. Cole.—13 Oct. 1911. Slide rule for calculating tractive effect of locomotives. 1.

407. H. L. Cole.—6 Nov. 1911. Slide rule for estimating boiler power of locomotives. 1.

408. A. S. Gibb.—17 Nov. 1911; UK. 16,331, 15 July 1911. Hydraulic engineering, module with curved baffles, etc., for delivering constant supply under varying heads. Reference is made to No. 223 of 1907. 2.

409. Shiam Lall.—Vermin destroying.

410. Madan Gopal.—Metal casting.

411. F. W. Burstall.—31 Aug. 1911; UK. 18,148, 30 July 1910. Coal, etc., is distilled at a pressure of 10 to 18 inches of mercury below atmospheric pressure and a temperature between 850° and 1,000° C.

412. W. G. Moore.—31 Aug. 1911; UK. 23,376, 10 Oct. 1910. Coal is distilled under a pressure of 10 to 18 inches of mercury below atmospheric pressure and a temperature between 850° to 1,000° C. The products are fractionally redistilled to recover oils and other products.

413. J. T. Armstrong & J. Mordan.—14 Jan. 1913; UK. 868, 12 Jan. 1911. Fuel mixture of oil, glue, water, sulphate of iron, paddy husk or similar material.

414. G. W. Beadle.—1 Sept. 1911; UK. 15,213, 29 June 1911. Crimping, etc., machines for paper cartoons, etc., special form of spinning disc for. 1.

415. T. F. Fitzsimons.—29 Nov. 1911. Venting and liquid discharging device for oil cans, etc. 1.

416. F. J. Boucher.—29 Nov. 1911. Signal lamps with clock work, etc., flash light mechanism. 4.

417. P. C. Mehta.—29 Dec. 1911. Refuse from mowra (mahua) distillation used alone or with cotton refuse in manufacture of fuel briquettes. Reference is made to No. 407 of 1906.

418. E. D. Tamboli.—1 March 1912. Spinning speed of frames regulated when starting by belt shifting gear. 1.

419. W. Reid.—15 Sept. 1911. Railway semaphore signals with mechanical control from two points. 1.

420. Dr. P. Hoering.—23 Sept. 1911; UK. 13,006, 30 May 1911. Milk with additions of iron and glycerophosphoric acid.

421. Williams, R.—Latrines.

422. R. Williams.—24 Nov. 1911. Tilting dust bin. 1. Converted into a patent.

423. Siemens Brothers & Co., Ld., & F. Hird.—9 Oct. 1911; UK. 15,358, 1 July 1911. Coins are separated into spurious and genuine by passing them through a magnetic field with an initial velocity.

424. W. G. Gibbins.—28 Nov. 1911; UK. 15,871, 2 July 1910. Washing, dyeing and softening machines for fabrics, etc., of an oscillating drum type. 2.

425. British Burma Petroleum Co.—Burner.

426. S. T. Dutton.—19 March 1912. Railway points, operating and locking by a long stroke lever. 1.

427. E. H. Archer.—26 Sept. 1911; UK. 4066, 17 Feb. 1911. Lining material for packing cases consisting of metal foil strengthened by paper or fabric affixed on either or both sides by stitching.

428. E. H. Archer.—26 Sept. 1911; UK. 10,432, 29 April 1911. Lining material for packing cases consisting of metal foil strengthened by paper or fabric affixed on either or both sides by narrow strips of adhesive. See also No. 427 above.

429. Fateh Mohammad Deura & Co.—30 Nov. 1911. Polo stick heads covered with leather and painted. 1.

430. Société Generale des Nitrures.—26 July 1912; UK. 29,715, 21 Dec. 1910. Electric furnace of revolving type, specially for manufacture of aluminium nitride. Improvement on No. 156 of 1911. 1.

431. Vibrocel Co., Ld.—27 May 1912; UK. 22,099, 23 Sept. 1910. Concrete reinforced structures of cellular form. 2.

432. E. W. Potter.—17 Oct. 1911. Handloom with picking motion worked from the slay by levers and links. 2.

433. A. G. Koechlin.—26 Sept. 1911; UK. 16,366, 15 July 1911. Weft bobbins with thread end or reserve drawn or sucked into the interior. 1.

434. Gwynnes, Ld., J. F. Breeze & W. R. Macdonald.—24 July 1912; UK. 594, 9 Jan. 1911. Electric motor combined with pumps and means for circulating water through the motor casing. 1.

435. T. Taylor and John Taylor & Co. (Waterfoot), Ld.—28 Nov. 1911; UK. 21,503, 21 Sept. 1909. Machine driving belts impregnated with balata or gutta-percha in vacuum apparatus. 1.

436. L. Sunderland & G. C. Pillinger.—13 March 1912; UK. 29,944, 22 Dec. 1909. Electric supply system for charging batteries with automatic control of the prime motor regulated by voltage or current demand. 1.

437. E. Cervenka & M. Mercurio.—13 March 1912; UK. 15,691, 5 July 1911. Tubes, receptacles, etc., of glass, porcelain, etc., protected by metal and other casings. 1.

438. J. K. Anderson.—14 Aug. 1912; UK. 22,544, 5 Oct. 1910. Calenders for finishing textile goods, safety feeding devices. 1.

439. G. A. V. Longuemare.—26 July 1912; UK. 22,074, 6 Oct. 1911. Pneumatic tyres with protector consisting of metal plates secured to a band. 1.

440. O. H. C. Sabow.—15 Jan. 1912. Glazing clip for glass on astragals. 1.

441. E. W. Montesole.—26 Sept. 1911. Wardrobe of folding type for camp, etc., use. 2.

442. W. D. Hoare, R. Miller, F. E. Patterson, C. W. Tomkinson, O. V. G. Hoare, C. W. Rhodes & F. C. Danger.—17 April 1912. Jute, etc., is treated for extraction of fibre without removal of the plots. 3.

443. Syed Ahmed & Brothers.—21 Nov. 1911. Cooking appliance with superposed dishes heated by steam. 2. Converted into a patent.

444. M. Kahn.—20 Nov. 1911; UK. 22,695, 30 Sept. 1910. Piles of tubular form with detachable stores. 1.

445. L. Peufaillit.—26 Sept. 1911. Fibre yielding materials for textiles, paper, etc., are heated with water and petroleum or other hydrocarburet under pressure.

446. Weston, A.—Cans.

447. A. G. Spinnerei & Weberei Steinen.—13 March 1912; UK. 15,798, 7 July 1911. Electric current distributor for looms with electric stopping and signalling devices. 1.

448. J. Brundrit.—14 Aug. 1912. Water lifting or circulation working without extraneous power or by heating the rising side. 1.

449. M. Coplans.—13 March 1912; UK. 13,702, 11 June 1909. Water and other liquids are purified by additions of certain inorganic colloidal substances designed to produce gelatinous precipitates, mechanical agitation being also used.

450. G. St. B. S. Watkins.—13 March 1912; UK. 16,509, 11 July 1910. Internal combustion engines are cleaned by burning out carbon deposits with the aid of oxygen. 1.

451. A. W. Noble, M. Dunn & J. Cuninghame.—10 April 1912. Carding engine stop motions. 3. Converted into a patent.

452. W. H. Morgan.—18 Oct. 1911. Railway sleepers are made from old steel rails of which the head or flange has been expanded laterally by machinery described. 5.

453. A. E. Young.—18 Oct. 1911. Folding and wrapping newspapers, etc. 2.

454. Maung Khine.—Boots and shoes.

455. Fendall, C. E. D'O.—Timber shoot.

456. David, I.—Pipes and tubes.

457. Bhattacharjee, N. B.—Plough.

458. Das, K. C.—Centrifugal fans.

459. S. C. Caddy.—12 Oct. 1911; UK. 18,185, 30 July 1910. Skipping rope and physical exercising appliance. 1.

460. V. H. Mackinney & S. D. Chalmers.—12 Oct. 1911; UK. 21,901, 21 Sept. 1910. Illuminating pictures, etc., by concealed lamp and special form of reflector. 2.

461. Rope Sole Shoes & Knitting Co., Ld.—2 Jan. 1912. Rope soles with leather binding. 1.

462. L. G. Young.—30 July 1912; UK. 18,373, 14 Aug. 1911. Flying machine with means for adjusting curvature and area of the planes and tail. 6.

463. A. G. Koechlin.—9 April 1912. Looms with automatic thread severing devices for weft replenishers. 1.

464. A. G. Koechlin.—9 April 1912. Loom with automatic shuttle bobbin change, mechanically controlled, and stop motion. 1.

465. E. W. Graves.—28 May 1912. Cup with prong and collecting wings for collecting juice from tapped trees. 1.

466. Maula Bux & C. Allsop.—10 Jan. 1912. Grinding and crushing mills, ball bearings, driving gear, etc. 1.

467. E. R. Royston.—27 Feb. 1912; UK. 10,911, 5 May 1911. Gas producers with arrangements for leading gas through a retort chamber placed in the hottest part. 1.

468. I. Shone.—25 Oct. 1911; UK. 10,663, 30 April 1910. Sewage ventilation systems, construction and arrangement of valves, etc., air supply and exhaust to sewers, drains, water closets, etc. 7.

469. R. W. Scott.—13 March 1912; UK. 14,235, 17 June 1909. Knitting ribbed fabrics. 1.

470. Munshi Betap.—Fabric.

471. Saxby & Farmer, Ld., & Saxby & Farmer (India), Ld.—3 Feb. 1912. Railway signal for yard control with plug board and electric connections for signal and points. 1.

472. F. M. B. Rosenthal.—27 Feb. 1912. Railway signal for crossing gates, electrically operated. 1.

473. Blaugas-Patent-Gesellschaft m. b. H.—28 Nov. 1911. Gas for illuminating purposes produced in a liquefied form by means arranged for saving more volatile portions. 1.

474. F. J. T. Bell & H. C. Bell.—13 March 1912; UK. 3455, 12 Feb. 1910. Sewing machines with bobbin casing and guard to prevent ballooning of the thread. 1.

475. W. R. D. Innes.—28 May 1912. Railway sleepers of reinforced concrete with slotted ends and T. bolt, etc., fastenings. 1.

476. Muir-Vincent Smoke Consumers, Ld.—9 April 1912. Furnace bridge for locomotives, etc., arranged for admission of air for smoke consumption. 2.

477. Nitrogen, Ld.—17 Jan. 1912; UK. 27,558, 26 Nov. 1910. Nitrogen oxides produced by action of flame of combustible gas, etc. 1.

478. Nitrogen, Ld.—Nitrogen oxides.

479. E. R. Royston.—27 Feb. 1912; UK. 16,512, 18 July 1911. Gas producer with retort chamber in the hottest part of the wall to break up tar, etc., in the gas. 1.

480. Gare, T.—India-rubber.

481. R. M. Jones.—25 Oct. 1911; UK. 19,968, 26 Aug. 1911. Differential axle couplings for locomotives, etc. 1.

482. W. H. Morgan.—18 Oct. 1911. Railway sleepers made from old rails bent into Z or U forms in plan. 1.

483. Syed Mahomed Azizul Hasan.—29 May 1912. Paint prepared from crude iron oxide by grinding, washing and certain additions.

484. S. T. Dutton.—11 April 1912. Railway signalling with electric means for calling attention to obstructions on or blocking of a clear line. 1.

485. D. H. Todiwalla.—9 April 1912. Grinding mills for grain with two pairs of stones on one shaft with an intermediate fixed pair of stones or a stone with two grinding surfaces. 1.

486. Woolwich-Bonami, I.—Tide mills.

487. J. A. Hill.—9 April 1912; UK. 19,002, 12 Aug. 1910. Locomotive spark arrestors. 1.

488. W. E. Steers.—9 April 1912; UK. 8910, 10 April 1911. Sights of folding or extensible type for pistols and other short barrelled weapons. 1.

489. F. Annett.—28 Oct. 1911. Boilers for steam pumps are supplied with feed water from the pump. 1.

490. W. G. Blair, A. E. Williams, Saxby & Farmer, Ld., and Saxby & Farmer (India), Ld.—17 April 1912. Railway signalling, holder or carrier for Neale's or other tokens. 2.

491. Sheodurshan Dial.—Medicine.

492. Narain Singh.—17 Nov. 1911. Perpetual calendar. 1. Converted into a patent.

493. McNaught, F. H.—Vermin destroying.

494. Jalsta, S. D.—Ginning.

495. J. Levick,—19 Oct. 1911; UK. 17,658, 3 Aug. 1911. Commodes with readily accessible shoot specially for railway carriages. 2.

496. J. J. Shedlock.—19 Oct. 1911; UK. 26,512, 15 Nov. 1910. Fuel briquetting plant and details comprising mixing, heating, measuring and pressing devices. 1.

497. A. Shepherd.—19 Oct. 1911; UK. 2262, 28 Jan. 1911. Spinning, bobbins with means for securing the barrel and the head together. 1.

498. W. D. Douglas-Jones.—5 June 1912; UK. 13,810, 7 June 1910. Carts and wagons of folding type, specially adapted for military use, also convertible into pontoons. 2.

499. C. R. Orr.—20 Jan. 1912; UK. 11,598, 13 May 1911. Stop motions for cloth measuring and inspecting machines. 3.

500. W. Hart & J. M. Deschamps.—17 April 1912. Charcoal kiln of vertical type, with sight and air supply holes, charging and discharging arrangements. 3.

501. R. C. Duncan.—20 May 1912. Tea, etc., drying by air heated by electric resistances. 1.

502. A. J. A. Craven.—18 April 1912. Window, etc., catch with gravity hook and wedge shaped striking plate. 1.

503. Smith, J. D.—Telegraphs.

504. T. K. Brothers.—Ink.

505. Crage, J. M.—Leather.

506. Crage, J. M.—Leather.

507. A. E. Terry.—26 Oct. 1911; UK. 23,216, 7 Oct. 1910. Clips of coiled wire for holding or displaying articles. 2.

508. W. M. Richards.—30 Oct. 1911; UK. 25,804, 7 Nov. 1910. Nasal inhaler. 1.

509. Peat Coal Investment Co., Ld.—17 April 1912; UK. 6041, 10 March 1910. Peat is treated by a regenerative wet carbonising process to facilitate expulsion of water. 2.

510. Techno-Chemical Laboratories, Ld.—Oils.

511. R. Wankmuller.—17 April 1912; UK. 2636, 1 Feb. 1911. Balloons of dirigible type with supplementary cars suspended at the sides. 2.

512. G. Maire.—17 April 1912; UK. 18,880, 22 Aug. 1911. Trap for insects. 1.

513. D. A. Venot & L. F. Chasseigne.—26 Jan. 1912; UK. 17,113, 26 July 1911. Match igniting composition containing sulphur, etc., instead of other binding material.

514. S. M. Wadia.—22 April 1912. Centrifugal fans attached to and driven by sewing machines, lathes, etc. 1.

515. A. R. Farid.—15 Feb. 1912. Soda water machines using soda and acid. 4.

516. P. B. Tod.—1 May 1912; UK. 14,386, 17 June 1911. Tent rope adjustment. 1.

517. Siemens Schuckertwerke Gesselschaft m. b. H.—1 May 1912; UK. 14,470, 19 June 1911. Pumps of the two stroke cycle internal combustion type. 2.

518. W. W. Hamil.—1 May 1912; UK. 2051, 27 Jan. 1911. Carburettors for internal combustion engines. 3.

519. F. M. Lea.—14 Aug. 1912; UK. 5277, 2 March 1911. Air pump or inflator for pneumatic tyres. 1.

520. Turbo-Amalgamator & Extraction Co.—Ores, treating.

521. W. Climie.—6 Nov. 1911; UK. 17,469, 1 Aug. 1911. Gas producers, details of grate, stirring, etc., appliances. 2.

522. C. E. de Boos.—20 Jan. 1912. Pneumatic hub for wheels. 2.

523. A. Irinyi.—7 Nov. 1911. Burner with heating devices for liquid fuel. 3.

524. H. Yenjo.—2 May 1912. Digestive ferments.

525. C. E. McCay.—1 May 1912. Conveyors or lifts of the wire ropeway type. 1.

526. E. H. Archer.—7 Nov. 1911; UK. 22,223, 24 Sept. 1910. Sliver and other cans made of veneer with removable false bottom. 1.

527. G. E. B. Pritchett.—18 Nov. 1911; UK. 4524, 22 Feb. 1911. Electric accumulator boxes, construction of upper plates and cover devices. 1.

528. Carrington, C. R. C.—Billiards.

529. A. Thompson.—24 April 1912. Cup with clips for attachment to fans, etc., to catch dripping oil. 1.

530. G. W. Beadle.—22 May 1912; UK. 10,756, 3 May 1911. Printing on cartons or like vessels or tubes. 3.

531. A. E. Prosser.—11 May 1912; UK. 7324, 23 March 1911. Racket and like balls covered with adhesive surgical binding or similar material without overlap. 1.

532. B. Walker.—11 May 1912; UK. 29,953, 24 Dec. 1910. Looms for cut and looped pile fabrics. 2.

533. T. E. Ward & J. Gaut.—11 May 1912. Totalisators with ticket issuing and scoring arrangements. 13.

534. G. C. Douglas.—30 July 1912; UK. 23,706, 13 Oct. 1910. Tea leaf after fermentation is partly dried by air at atmospheric temperature and then by evaporation at 200° F. in vertical or horizontal cylinder apparatus. 1.

535. Sitaramayer, G. A.—Looms.

536. G. A. Praed.—5 June 1912. Range finder, sighting and rectangulating instrument. Improvements on No. 147 of 1909. 1.

537. A. Puech & H. Chabel.—23 Nov. 1911. Filters with moulded concrete slabs, etc., with or without reinforcement, carrying the gravel bed. 1.

538. W. A. Dickinson & Lyxhayr Manufacturers, Ld.—16 Nov. 1911; UK. 779, 11 Jan. 1911. Coir and similar fibre treated to produce material resembling horse hair for bedding, upholstery, etc.

539. J. Tanne & J. Fluss.—4 June 1912; 19,239, 28 Aug. 1911. Soap manufacture from fats, oils, mineral oils, etc., and sodium carbonate, using at the same time small amounts of ordinary soap.

540. Lackawanna Steel Co.—12 Jan. 1912. Piling of sheet metal interlocking type. 2.

541. G. Restucci.—9 May 1912; UK. 12,324, 22 May 1911. Steam separators of the throttling type. 1.

542. R. Ebrahim.—9 March 1912. Crooked handles of umbrellas, sticks, etc., are prevented from unbending by a tie which may be provided with a holder for small articles. 1.

543. M. Purser, Jr.—21 May 1912; UK. 24,411, 21 Oct. 1910. Fencing, form of knot between horizontal and vertical wires. 1.

544. A. H. Johnson & L. W. Williams.—21 May 1912; UK. 16,800, 14 July 1910. Railway point stretchers arranged to be rigid vertically but flexible horizontally. 1.

545. F. Lobnitz.—1 June 1912; UK. 13,585, 7 June 1911. Navigable rock cutter with the Lobnitz appliance arranged at the bow or amidships. 1.

546. A. Parry.—21 May 1912; UK. 28,118, 3 Dec. 1910. Tea rolling machine with movable container and concave table. 3.

547. R. F. Colborne.—21 May 1912. Railway vehicle windows of counterbalanced type. 1.

548. R. F. Colborne.—21 May 1912. Railway vehicle brakes, arrangements for operating by hand in shunting yards, etc. 2.

549. F. Beck.—14 Aug. 1912; UK. 22,798, 16 Oct. 1911. Rotary explosion motors of the annular chamber type. 1.

550. Antoni, F. A.—Paints and painting.

551. V. M. Fitzhugh, P. E. Cunningham & R. H P. Reid.—13 Aug. 1912; UK. 20,566, 16 Sept. 1911. Spark arrestors for locomotives, etc., with baffles and fans having wire gauze vanes. 1.

552. J. S. Banaji.—2 May 1913. Electric generators and commutators and system of distribution for special forms of incandescent lamps. 8.

553. Maula Bux.—Grates.

554. M. A. Kawle.—3 Feb 1912. Lamps of the oil vapour incandescent type, arrangements for heating and cleaning the vaporizer. 4.

555. G. Racca & G. Dall'Oglio.—13 March 1912; UK. 15,019, 27 June 1911. Wheel of resilient type for motor cars, etc., with spiral springs in the rim. 1.

556. Dean, H., & Howorth, E.—Loom picker.

557. W. Jackson.—13 March 1912. Tea, etc., drying apparatus with combined hot air collecting and distributing chamber. 1.

558. M. Barr, R. A. Bell & H. R. Beeton.—21 May 1912; UK. 25,018, 27 Oct. 1910. Calculating or computing machines using balls, etc., to represent the partial products stored in the machine. 13.

559. R. F. P. Rubow.—21 May 1912; UK. 9270, 13 April 1911. Ventilating corn mills on a plenum system. 1.

560. A. G. Koechlin.—21 May 1912. Looms with automatic weft bobbin exchange apparatus. 1.

561. H. E. Gresham.—25 May 1912; UK. 27,006, 21 Nov. 1910. Injector with sliding nozzle, improvements on No. 57 of 1910. 2.

562. Hupp Motor Car Co.—17 Feb. 1912; UK. 20,925, 21 Sept. 1911. Springs for motor cars, etc. 1.

563. R. Burn.—20 Jan. 1912. Folding telegraph forms, circulars, etc. 5.

564. W. F. Wiles, T. Macleod & F. W. Wiles.—22 May 1912. Aëroplanes, details and arrangements of planes, carriage, steering, propelling, etc. 2.

565. A. Laing.—30 Nov. 1911; UK. 15,747, 6 July 1909. Furnaces with oil fired arrangements for doors, air supply, etc. 2.

566. J. S. Banaji.—Electric incandescent lamp and holder. See also No. 552 of 1911. 3.

567. J. I. Solomon.—20 March 1912. Pearl production by regulated introduction of foreign bodies in oysters, etc.

568. C. Ellis & E. F. Lowe.—31 Jan. 1912. Plungers for oil well, etc., pumps, with removable valve casings and a packing of white metal. 1.

569. O. A. Mygatt.—12 Jan. 1912; UK. 3872, 15 Feb. 1911. Glassware is made by blowing into flutted, etc., moulds to produce various thicknesses in the coloured, etc., layers and then uniformly acted upon by etching, sand blasting or other process to produce various colour effects.

570. S. A. Hortsmann.—22 May 1912; UK. 5609, 7 March 1910. Spring wheels with spokes acting as springs only in a direction at right angles to the plane of the wheel. 13.

571. F. Crocker.—31 Jan. 1912; UK. 25,112, 28 Oct. 1911. Railway, etc., brake lever arrangements with variable leverage. 1.

572. J. K. Biswas.—5 Oct. 1912. Looms, picking, slay and driving motions. 2.

573. W. J. Johnston.—1 Dec. 1911; UK. 6727, 17 March 1911. Axles, etc., are made in one heat from blooms by swaging in dies. 1.

574. Bloech, E. O. T.—Baling press.

575. J. J. Heilmann.—1 June 1912; UK. 4518, 22 Feb. 1911. Explosion turbines of direct acting type. 3.

576. W. J. H. King.—14 Dec. 1911; UK. 27,349, 24 Nov. 1909. Fence or barrier for wind, drifting sand, etc., consisting of metal or other sheets with spikes and hand holes. 1.

577. T. Bateman.—28 March 1912. Rotary fans in railway vehicles or elsewhere are driven by an air current produced by the motion of the vehicle or by a blower, etc.

578. Elahi Bakhsh.—Polo stick.

579. W. H. Wakfer & S. Peck.—16 April 1912; UK. 8534, 5 April 1911. Files with clearance channels for cuttings. 1.

580. Turbo Amalgamator & Extraction Co., Ld.—25 May 1912; UK. 22,627, 13 Oct. 1911. Amalgamating apparatus for gold, silver, etc., ores. 1.

581. P. Hoering.—25 May 1912; UK. 21,327, 27 Sept. 1911. Artificial wood and raw material for cellulose and paper is made by pressing papyrus, umsoof and similar reed-like materials. Reference is made to No. 323 of 1911.

582. P. Hoering.—14 Aug. 1912; UK. 21,328, 27 Sept. 1911. Fuel blocks and raw cellulose or paper material made as described in No. 323 of 1911 by finer comminution and less pressure.

583. P. Hoering.—25 May 1912; UK. 21,329, 27 Sept. 1911. Artificial wood, fuel, etc., made in boards, bars, etc., by pressing reed and like material. Reference is made to No. 323 of 1911.

584. A. W. Southey.—1 June 1912; UK. 29,501, 19 Dec. 1910. Oil gas producer with partial combustion and partial vaporisation of the oil. 1.

585. R. F. Colborne.—1 June 1912. Railway vehicle lavatory doors and seats. 2.

586. J. A. Shields.—25 May 1912. Cotton bolls which have not opened are treated by breaking, etc., to recover the cotton. 1.

587. B. C. Sinha.—12 Feb. 1912. Fabrics water-proofed by chemical process.

588. A. A. Cantor.—17 April 1912. Railway signalling, token carrier. 1.

589. Allsop, C.—Water-lift.

590. C. Ciccolini.—20 Dec. 1911. Agricultural appliance with revolving cutters for tilling the soil. 3.

591. John Greenhalgh & Sons, Ld.—25 June 1912; UK. 24,674, 27 Oct. 1909. Opening and clearing machine of beater type for cotton and other fibrous material. 3.

592. R. M. Edey.—5 March 1912. Railway block signalling for single lines, with arrangements for block signalling into sidings without interfering with through working. Reference is made to Neale's instrument, No. 434 of 1900. 1.

593. G. Dubern.—9 Jan. 1912. Antiseptic disc fixed over the mouths of ball stoppered bottles.

594. K. T. Dass.—7 June 1912. Water lift worked by animal power, etc., details of construction of framing, whim, bucket attachment, etc. 1.

595. Davidson, S. C.—Tea.

596. J. Murphy.—4 Jan. 1912; UK. 16,723, 13 July 1910. Bottle blowing machine with two parison moulds and a finishing mould. 7.

597. Kuchler-Gesellschaft für Hygienische Milchversorgung m. b. H.—1 June 1912; UK. 21,312, 27 Sept. 1911. Milk can with valve and stirrer. 1.

598. Kuchler-Gesellschaft für Hygienische Milchversorgung m. b. H.—1 June 1912; UK. 21,538, 30 Sept. 1911. Milk retailing apparatus with stirring and measuring appliances. 2.

599. S. Milne.—5 June 1912; UK. 20,560, 3 Sept. 1910. Bamboo cutting-up machinery for use preparatory to pulping. 2.

600. R. Riley, J. H. Ashworth, H. Foden, F. W. Steele & L. P. Steele.—13 March 1912; UK. 4595, 24 Feb. 1911. Spinning, travellers for ring spinning, doubling and twisting machines. 1.

601. F. J. T. Bell, H. C. Bell & J. Brandwood.—13 March 1912; UK. 14,980, 22 June 1910. Sewing machine of the two reel lock stitch type. Reference is made to No. 320 of 1911. 2.

602. R. Thomson & W. A. Thomson.—1 June 1912; UK. 27,082, 22 Nov. 1910. Reinforced concrete floor construction. 8.

603. R. Thomson & W. A. Thomson.—1 June 1912; UK. 27,528, 26 Nov. 1910. Reinforced concrete columns or pillars. 7.

604. R. Berthon & M. Audibert.—16 Dec. 1911. Cinematograph three colour apparatus. 3.

605. H. W. Gabbett-Fairfax.—16 Dec. 1911; UK. 10,355, 28 April 1911. Husking machine of the disc or drum grater type for palm nuts, etc. 2.

606. A. A. Crawford.—6 Jan. 1912. Bearings for vertical spindles of electrically driven fans. 1.

607. C. Watson.—6 Jan. 1912; UK. 26,753, 7 Nov. 1911. Railway buffing and draft gear, arrangement of springs to work in series, singly and in parallel consecutively. 1.

608. C. Watson.—6 Jan. 1912; UK. 9548, 19 April 1911. Railway buffing and draft gear, improvements on No. 607 of 1911. 1.

609. H. A. Humphrey.—6 Jan. 1912; UK. 21,609, 30 Sept. 1911. Pumps of the direct explosion or Humphrey type. 3.

610. C. E. Player.—7 March 1912; UK. 22,717, 14 Oct. 1911. Cooling screens of two layers of absorbent fabric attached together at intervals and kept wet. 1.

611. Reinstein, H. G.—Furniture.

612. A. B. Strange.—27 Feb. 1912. Railway signal wire carrier of pendulum type, 1. Converted into a patent.

613. J. M. Wikeley.—19 March 1912. Camp oven with inner and outer casings of sheet metal and supports for trays, fuel, etc. 1.

614. F. T. LeFeuvre.—17 July 1912. Railway vehicle draw bar plates with inserted rubbing plate arranged for lubrication. 1.

615. Pereira, B.—Aërating and bottling.

616. W. A. P. Cosserat.—4 March 1912. Railway point operating, locking, and detecting gear. 1.

617. J. Forseck.—23 Jan. 1912; UK. 17,971, 8 Aug. 1911. Decorticating machine with conveyors and conical hackling drums arranged to work endwise from the ends to the centre of the leaves. 2.

618. M. M. Forkert.—2 Jan. 1912; UK. 22,552, 12 Oct. 1911. Sieves of oscillating type with devices for clearing the mesh. 1.

619. R. Stock.—21 Dec. 1911; UK. 16,996, 25 July 1911. Ploughs with spring held shares. 1.

620. F. Bedford & C. E. Williams.—5 June 1912; UK. 3752, 21 July 1909. Organic substances are catalised with nickel, etc., and hydrogen and other gas mixtures which are freed from impurities by a cooling process.

621. J. T. Armstrong & J. Mordan.—5 June 1912; UK. 21,059, 23 Sept. 1911. Oils, such as petroleum, are split into drops and the drops coated with layers of glue or other binder which is then hardened. Coal dust, etc., may be added to this solidified oil. 2.

622. West, D. K.—Ginning.

623. P. Ferra.—5 June 1912; UK. 28,667, 9 Dec. 1910. Composition of copper or other sulphide, sulphur and kaolin, etc., applicable as a heat insulator or a thermo-electric element.

624. N. Ceipek.—15 June 1912; UK. 9743, 21 April 1911. Explosives of the ammonium nitrate group with safety additions.

625. N. Ceipek.—24 July 1912; UK. 9742, 21 April 1911. Explosives of the ammonium nitrate group with safety additions. Reference is made to No. 449 of 1907.

626. J. L. Nilsson.—15 June 1912; UK. 10,689, 30 April 1910. Cooling railway vehicles and refrigerators by circulating ice water. 1.

627. M. Boucherie.—14 Jan. 1913. Textile fabrics and yarns are waterproofed or otherwise treated by means analogous to those used for wood, especially by alternate compression and exhaustion in presence of liquids.

628. H. A. Humphrey.—10 Jan. 1912; UK. 1241, 17 Jan. 1911. Compressing gases and utilising the expansive force. 1.

629. F. M. Hale.—13 Aug. 1912; UK. 4925, 27 Feb. 1911. Projectiles of the grenade type for use with rifles, etc. Reference is made to No. 450 of 1909. 5.

630. R. E. Bury.—26 Jan. 1912. Railway wagon door fastening with bell crank catches and a screw lock. 5.

631. Mir Nazir Ahmad Bukhari.—Water-lift.

632. W. Beedle, F. Chopping & J. G. How.—26 Feb. 1912; UK. 15,057, 27 June 1911. Tap with casing in two parts to expose the valve seat which is formed with a sharp edge. 1.

633. W. J. Brewin.—9 April 1912. Railway vehicle brakes operated from the foot-boards. 3.

634. Siemens Brothers' Dynamo Works, Ld.—9 Jan. 1912; UK. 27,753, 29 Nov. 1910. Pumps on the Humphrey system, details of valves, etc. 1.

635. Badische Anilin & Soda Fabrik.—13 March 1912; UK. 19,249, 16 Aug. 1910. Ammonia is synthesized from nitrogen and hydrogen in the presence of iron with certain additions.

636. H. Joachim.—1 June 1912; UK. 9533, 19 April 1911. Gas kindling appliance with striker worked by the tap. 1.

637. S. W. Hayes.—2 Sept. 1912; UK. 24,177, 31 Oct. 1911. Railway derailing device. 1.

638. R. M. Hahn.—5 June 1912; UK. 25,413, 1 Nov. 1910. Fastening device for corsets, etc. 2.

639. J. Weiser.—2 Sept. 1912; UK. 18,063, 9 Aug. 1911. Coking in the petroleum industry, improvements in the stills such as described in No. 145 of 1910. 1.

640. E. W. Enfquist.—2 Sept. 1912. Oils and pigments prepared by mixing petroleum tailings with lighter oils.

641. Peat Coal Investment Co., Ld.—11 Oct. 1912; UK. 12,013, 14 May 1910. Fuel briquetting plant with arrangements for supplying ammonia recovery gas producer plant with steam from the driers. 3.

642. A. E. Williams.—15 June 1912. Railway signalling apparatus for exchanging tokens between engine and line. Reference is made to No. 472 of 1908. 6.

643. W. A. P. Cosserat.—4 March 1912. Railway switch locks connected for succession locking, improvements on No. 587 of 1910. 2.

644. T. Dawson.—30 Oct. 1912; UK. 24,029, 30 Oct. 1911. Tent peg with rope clip or guard. 1.

645. H. Clarke & J. A. Campbell.—15 June 1912; UK. 13,125, 31 May 1911. Retort apparatus of vertical type for the destructive distillation of coal. 5.

646. Clarke, H., & Campbell, J. A.—Gas manufacture.

647. H. Clarke & J. A. Campbell.—15 June 1912; UK. 15,837, 7 July 1911. Coke-like fuel produced by distillation of coal in vertical retorts under specified conditions.

648. Leon Del Monte y Aldama.—9 Jan. 1912; UK. 18,659, 18 Aug. 1911. Distillation process for solid carbonaceous material involving circulation of gas through the charge at substantially equal temperatures.

649. J. Tucker.—9 Jan. 1912; UK. 15,112, 28 June 1911. Corsets with removable busks. 1.

650. F. Bedford & C. E. Williams.—24 July 1912; UK. 29,612, 20 Dec. 1910. Unsaturated fatty acids, glycerides and esters are converted into saturated compounds by treatment with hydrogen, etc., in presence of catalysers such as nickel oxide. Reference is made to No. 620 of 1911.

651. O. J. W. Higbee.—24 July 1912; UK. 24,885, 8 Nov. 1911. Vacuum wall bottles, etc., with solid necks and means for making them in moulds. 2.

652. W. Jackson.—13 March 1912. Tea, etc., drying apparatus, arrangement of belt rollers, guides and air ducts. 1.

653. J. Cairns.—14 Aug. 1912; UK. 22,739, 1 Oct. 1910. Wheel tyres of stud sectional type with separate closures and fastenings for the sections. 1.

654. Vereinigte Chemische Werke.—2 Sept. 1912; UK. 20,329, 13 Sept. 1911. Fats and unsaturated fatty acids are reduced by hydrogen in the presence of salts of the platinum metals and neutralising agents.

655. E. Le Bas, H. T. Garvie & E. A. Garratt.—5 June 1912; UK. 2665, 2 Feb. 1910. Pile, well tube, etc., withdrawing device consisting of jacks and grips. 1.

656. C. Edwards.—15 June 1912; UK. 28,424, 7 Dec. 1910. Spanner with self-adjusting jaw. 1.

657. A. W. Noble, M. Dunn & J. Cunninghame.—14 Aug. 1912. Carding engine stop motion, improvement on No. 451 of 1911.

658. Patil, V. S.—Cooking appliances.

659. Mills Equipment Co., Ld.—12 Jan. 1912; UK. 3220, 8 Feb. 1911. Military equipments with adjustable members especially for the water bottle. 2. Converted into a patent.

660. Mills Equipment Co., Ld.—12 Jan. 1912. Military equipments with removable haversacks, woven straps and other details. 3. Converted into a patent.

661. R. L. Ziller.—20 Jan. 1912. Protector for oil cans, etc., consisting of a plug of metal wool or the like. 1.

662. W. E. DeBrunner.—8 July 1912; UK. 3266, 8 Feb. 1911. Internal combustion engines, details of mixing chamber and nozzles for air, fuel, and water. 1.

663. J. Ashford & S. Leggett.—5 June 1912; UK. 9969, 25 April 1911. Weir shutters with floats. 1.

664. J. Ashford.—4 June 1912; UK. 10,491, 1 May 1911. Sluice gate raising and lowering mechanism with winding drums of variable moment, and with automatic or other releasing gear. 2.

665. A. E. Lamkin & L. G. Godwin.—12 Jan. 1912; UK. 27,843, 30 Nov. 1910. Oil gas producer with a flat wavy tube for the vaporizer and arrangement of injector nozzles and heaters. 2.

666. P. L. R. Fraser.—15 June 1912. Electric switch of automatic solenoid and mercury type for varying field currents of train lighting dynamos, etc. 1.

667. J. S. Kruse.—15 June 1912; UK. 29,387, 17 Dec. 1910. Enamel or cement composition of magnesium oxide and chloride, shellac, and suitable additions.

668. A. M. Melville-Hamilton.—13 March 1912; UK. 8835, 12 April 1910. Water bottle or bag with filtering attachment and stopper. 1.

669. R. Brown.—28 May 1912; UK. 29,598, 20 Dec. 1910. Soaps made with addition of silicate of soda under specified conditions.

670. J. A. Hart.—13 March 1912; UK. 29,391, 17 Dec. 1910. Gases and liquids are caused to interact for any purpose by passing through and over perforated curved surfaces, generally arranged as revolving drums or cones. 5.

671. Messenger, J. H.—Tyres.

672. Monotype Machine (Colonial Patents) Syndicate, Ld.—24 July 1912; UK. 19,544, 20 Aug. 1910. Composing and casting types in Semitic languages. 1.

673. Monotype Machine (Colonial Patents) Syndicate, Ld.—24 July 1912; UK. 28,692, 9 Dec. 1910. Casting or composing single types in Semitic languages. 8.

674. H. I. Hannover.—14 Aug. 1912; UK. 25,702, 17 Nov. 1911. Metal and alloys in a porous state in the form of plates, blocks, etc., with or without reinforcement, is produced by heating above the melting point of the eutectic which is then removed by gas pressure, centrifugal or shaking action. The product is used for accumulator plates, bearings, filters, etc., etc.

675. J. B. Neesham.—15 June 1912. Moulding machine of the jarring, squeezing and turn-over type for foundry use. 5.

676. F. G. Browne.—24 July 1912. Ship's hull cleaning machine for use under water. 3.

677. Craven, A. J. A.—Railway vehicles.

678. J. T. Sheldon.—20 Jan. 1912; UK. 540, 8 Jan. 1910. Stop valves and taps with supplementary valve to close passage when main valve is removed. 1.

679. W. Friese-Greene.—18 Jan. 1912; UK. 26,927, 19 Nov. 1910. Cinematograph devices with interposition of dark or other periods in taking or projecting the pictures to improve colour effects.

680. Lee, T.—Tiles.

681. J. C. Coxe.—1 July 1912. Lock of combination type. Reference is made to No. 528 of 1909. 5.

682. Burmah Oil Co., Ld., & F. M. Rogers.—16 March 1912. Grab for extracting broken tools, etc., from well borings. 1.

683. Hess Flume Co.—27 Jan. 1912. Flumes built up of channel sections for irrigation, etc. 2.

684. C. S. Richardson, F. P. Richardson, & J. F. Defordt.—27 Jan. 1912; UK. 19,916, 26 Aug. 1910. Variable speed gears, for motor cars, etc., of the epicyclic train type, with an intermediate member, adapted to be held or driven by, or to drive, a fluid pressure apparatus serving as a motor or brake. 2.

685. J. P. Naylor.—27 Jan. 1912; UK. 18,286, 2 Aug. 1910. Electric advertising or signalling apparatus in which letters, etc., are displayed by lamps or otherwise by selection of grouped elements. 4.

686. Pescatore, A. B.—Electricity.

687. S. T. D. Spread.—13 May 1912. Folding table combined with treadle operated punkah. 1.

688. C. A. McKerrow & J. H. Gillet & Sons, Ld.—17 July 1912; UK. 354, 6 Jan. 1910. Transfers for printing on fabrics.

689. Peat Coal Investment Co., Ld.—17 July 1912; UK. 13,650, 23 Nov. 1911. Extraction presses of endless band type, applicable for treating peat, oil seeds, sludge, etc. 2.

690. Peat Coal Investment Co., Ld.—17 July 1912; UK. 13,391, 2 June 1910. Peat is gathered and transported by cutting it in the bog, disintegrating and pulping it with sufficient water to enable it to be pumped. Pontoon apparatus and pipe lines may be employed. 2.

691. J. W. Aylsworth.—17 July 1912; UK. 3496, 11 Feb. 1911. Phenolic condensation products prepared from phenol, formaldehyde and methylene amine or their compounds and derivatives; applicable as celluloid, rubber substitutes, etc. Compare Nos. 691-696 of 1911.

692. J. W. Aylsworth.—17 July 1912; UK. 3497, 11 Feb. 1911. Phenolic condensation products on the lines of No. 691 of 1911 applied as lacquer, varnish and for other purposes.

693. J. W. Aylsworth.—17 July 1912; UK. 9559, 19 April 1911. Phenol condensation products of plastic nature on the lines of No. 691 of 1911 applied for many purposes.

694. J. W. Aylsworth.—24 July 1912; UK. 12,659, 25 May 1911. Plates for printing and embossing matrices and replicas of prints and engravings, use being made of plastic compositions such as described in No. 691 of 1911. 1.

695. J. W. Aylsworth.—24 July 1912; UK. 24,124, 31 Oct. 1911. Plastic compositions containing rubber, and phenol condensation products, applicable for electric insulation, etc., etc. Compare also Nos. 691 to 696 of 1911.

696. J. W. Aylsworth.—24 July 1912; UK. 26,029, 21 Nov. 1911. Phenolic condensation products on the lines of No. 691 of 1911; also methods of coating articles therewith for electrical insulation and other purposes.

697. H. Davey.—24 July 1912; UK. 17,577, 2 Aug. 1911 Sluice or floodgate of pivoted semi-circular hollow form, which may be arranged to open automatically under increased head. 1.

698. H. Davey.—24 July 1912; UK. 21,326, 27 Sept. 1911. Sluice and floodgates of hollow sliding form, which may open automatically under increased head. 1.

699. Adams Fire Fighting & Instrument Co.—17 July 1912. Maps marked with radial lines from observation stations for facilitating location of points of forest fires, etc. 1.

700. Adams Fire Fighting & Instrument Co.—17 July 1912. Range finding stations for observing forest fires, etc. 2.

701. Adams Fire Fighting & Instrument Co.—17 July 1912; UK. 25,370, 14 Nov. 1911. Fire extinguishing apparatus with liquid reservoirs and pressure generators. 4.

702. H. R. Haigh.—22 May 1912; UK. 7069, 21 March 1911. Valve for train lighting systems with valve surface and seating alternatively flexible and a cutting edge. 1.

703. H. Knudsen.—22 May 1912; UK. 5476, 4 March 1910. Internal combustion engines, details of construction of enclosed valve gear, pipes, cylinder and crank chamber connections. 2.

704. H. Knudsen.—22 May 1912; UK. 27,578, 26 Nov. 1910. Internal combustion engines, piston cooling and air circulation devices. 1.

705. W. J. Hollier.—9 April 1912; UK. 4485, 22 Feb. 1911. Decorticating and thrashing machine combined for treating flax, etc. 4.

706. Badische Anilin & Soda Fabrik.—25 May 1912; UK. 23,723, 26 Oct. 1911. India-rubber latex is treated with oxygen compounds of sulphur having a reducing action.

707. J. Bally.—15 June 1912. Electric furnaces of induction type. 9.

708. J. Bally.—15 June 1912. Electric boilers for generating steam, distilling, etc. 3.

709. R. T. Morris.—5 June 1912; UK. 26,138, 22 Nov. 1911. Tobacco pipe with wire in bowl and down stem to distribute the heat. 1.

710. J. Williams.—16 June 1912. Carburetting apparatus for oil air gas, with bell reservoir and automatic regulation of oil supply. 4.

711. E. B. Killen.—14 Aug. 1912; UK. 527, 8 Jan. 1910. Spring arrangements for motor cars, seats, etc., consisting of lever devices resting on pneumatic studs or buffers near the fulcrum. 2.

712. A. Turnbull.—15 June 1912; UK. 3543, 14 Feb. 1910. Motor car, etc., emergency rims, tyres or annular wheels and strut, etc., devices for fixing them. 2.

713. Robertson Marine Engine Brake Co., Ld.—24 July 1912. Governor combined with brake and recorder for marine steam and other engines. 2.

714. Douglas, N. S.—Pumps.

715. A. Moon & J. E. Danielson.—27 Feb. 1912; UK. 16,055, 11 July 1911. Eye-glasses with wedging means for securing spring. 1.

716. A. B. Starr.—29 April 1912; UK. 29,508, 28 Nov. 1911. Applying and crimping on tops and bottoms of packing vessels. 2.

717. L. Cerebotani.—22 July 1912; UK. 16,253, 7 July 1910. Telegraph printing apparatus. 5.

718. E. L. Bas.—29 Jan. 1912; UK. 10,033, 25 April 1910. Sheet piling of channel section and special locking section. 1.

719. Marconi's Wireless Telegraph Co., Ld.—24 July 1912. Masts for wireless telegraphs built up of flanged semi-circular sections and a top pole which carries a cradle, etc., upwards during erection. 1.

720. Ellis, C., & Lowe, E. F.—Pumps.

721. A. Paul & A. Beck.—21 May 1912; UK. 24,356, 2 Nov. 1911. Cocoanuts and similar nuts or fruits are treated by sawing and then by slitting machines to remove the kernel entire. 8.

722. H. D. R. Jameson & I. L. Williamson.—1 Feb. 1912; UK. 716, 11 Jan. 1911. Labels for luggage, etc., in sets with special arrangements for distinguishing. 1.

723. F. Pudney & F. Sadler.—5 Feb. 1912; UK. 26,432, 15 Nov. 1909. Incandescent gas mantles with additional fringes or rims. 1.

724. P. J. Packman.—25 March 1912; UK. 23,644, 15 Oct. 1909. Sound reproducing machines, pointed cutting and reproducing stylus for. 1.

725. B. J. Diplock.—24 July 1912; UK. 3107, 8 Feb. 1910. Road vehicles with feet on endless bands instead of wheels. 2.

726. J. W. Aylsworth.—24 July 1912; UK. 3498, 11 Feb. 1911. Phenol condensation product and method of manufacturing it for various uses. See also Nos. 691 to 696 of 1911.

727. C. C. Wakefield.—2 Sept. 1912; UK. 2128, 27 Jan. 1910. Pumps with reciprocating valve chest, specially applicable for forced feed lubricators. 1.

728. H. Ommundsen, E. J. D. Newitt, & S. R. Hollick.—24 July 1912; UK. 8038, 30 March 1911. Sighting small arms and ordnance. 2.

729. R. K. Gray.—24 July 1912; UK. 5394, 3 March 1911. Wash stands, etc., fitted with rubber or other pads or insets, etc., to prevent damage of, or by, crockery. 1.

730. J. A. Hart.—5 June 1912; UK. 23,555, 11 Oct. 1910. Looms with attachments for moistening warp. 3.

731. E. S. Luard.—25 May 1912; UK. 9165, 12 April 1911. Steam superheaters for locomotive, marine, etc., boilers, construction of the headers. 1.

732. McKenzie & Holland, Ld., & T. E. Haywood.—11 Oct. 1912; UK. 4997, 28 Feb. 1910. Railway signalling and interlocking electric system. 5.

733. A. A. Forbes.—18 Jan. 1913; UK. 19,706, 23 Aug. 1910. Manures with fish or fish refuse as a base, treated with salt, sulphuric acid, caustic lime, etc.

734. J. Anderson.—24 July 1912; UK. 19,430, 18 Aug. 1910. Windmills, propellers for airships, etc., with feathering vanes. 4.

735. Nobel's Explosvies Co., Ld.—11 Oct. 1912; UK. 3907, 17 Feb. 1910. Explosives containing tetra-nitro-aniline or its derivatives with other combustible or oxidising bodies.

736. Lister's (London), Ld.—24 July 1912; UK. 8021, 2 April 1910. Agitating and mixing machines for butter, ice cream, etc., with inner vessel of glass or earthenware and removable attachments for mixing. 2.

737. S. G. S. Dicker.—17 Jan. 1913; UK. 1298, 18 Jan. 1910. Telephone automatic or semi-automatic exchange systems. 4.

738. J. H. Brownson.—24 July 1912; UK. 3452, 12 Feb. 1910. Filter with combined suction and scraping device for cleaning. 3.

739. A. A. Pauly.—1 June 1912; UK. 27,390, 6 Dec. 1911. Moulding machine for cement pipes, etc., with means for supporting the article during downward ejection. 6.

740. E. S. G. Rees.—3 Feb. 1912; UK. 29,357, 17 Dec. 1910. Rotary pumps, condensers and compressors acting on the principle of the trompe applied centrifugally. 1.

741. S. J. Kendrick & F. T. LeFeuvre.—30 Sept. 1912. Commodes for railway carriages, adjustable in height for convenience of eastern and western use. 2.

742. J S. Wearn.—2 Feb. 1912. Destination boards of tramcars with visible indicator for facilitating adjustment. 1.

743. J. T. Robinson.—27 Feb. 1912. Lime kiln with cover. 1.

744. Farbwerke vorm. Meister Lucius & Bruning.—20 Feb. 1912; UK. 11,625, 13 May 1911. Aromatic primary arsines are prepared by reduction by nascent hydrogen from the acids, oxides or other compounds.

745. A. G. Harris.—27 Feb. 1912; UK. 26,544, 27 Nov. 1911. Composition of cement, serpentine or hydrated magnesium silicate and cinders or other filler.

746. G. Bouvier.—20 Feb. 1912; UK. 15,389, 27 June 1910. Dress fastening for blouses, etc., consisting of busks and straps. 2.

747. M. Wehli.—7 Feb. 1912; UK. 21,273, 13 Sept. 1909. Openers for fibrous material, special form of grid bars. 1.

748. H. G. P. Thorp.—27 Feb. 1912. Golfer's caddie bags with perforated disc at the mouth. 1.

749. D. K. West.—7 Feb. 1912; UK. 19,947, 26 Aug. 1910. Gins of the double roller Macarthy type with pushers or rollers for pressing the material to the knives. 1.

750. Airless Resilient Wheels, Ld.—1 March 1912; UK. 27,438, 25 Nov. 1909. Wheels of spring type with radial projections on hub and rim portion, intermediate springs and dust joints. 1.

751. De Dion Bouton (1907), Ld.—13 Aug. 1912; UK. 20,738, 19 Sept. 1911. Shaft coupling of universal joint type. 1.

752. J. N. Curtis & E. D. Sampson.—8 June 1912. Railway brake rigging with toothed cam arrangement for automatically taking up wear of blocks. Improvement on No. 549 of 1909. 1.

753. A. Rotinoff.—22 July 1912; UK. 2668, 2 Feb. 1911. Well boring apparatus of the rope type with free fall and expanding tool. 1.

754. De Dion Bouton (1907), Ld.—13 Aug. 1912; UK. 20,696, 19 Sept. 1911. Shaft coupling of universal joint type. 1.

755. J. N. Curtis & E. D. Sampson.—8 June 1912; UK. 29,600, 20 Dec. 1910. Railway brake rigging with toothed cam arrangement for automatically taking up wear of blocks. See also No. 752 of 1911. 1.

756. Nobel's Explosives Co., Ld.—6 Aug. 1912; UK. 262, 4 Jan. 1911. Funnel with steam jacket and attachment for filling projectiles with explosives, leaving a cavity for the detonator. 1.

757. Nobel's Explosives Co., Ld.—6 Aug. 1912; UK. 8517, 5 April 1911. Similar to No. 756 of 1911 above. 1.

758. A. J. Postans.—5 Aug. 1912; UK. 29,498, 19 Dec. 1911. Stropping machine for razors with discs driven by gearing and holder 1.

759. C. B. Redrup.—6 Aug. 1912; UK. 3632, 14 Feb. 1910. Bottles with separable neck and stoppers to prevent refilling, and filling apparatus. 2.

760. W. Paterson.—6 Aug. 1912; UK. 146, 3 Jan. 1911. Filtering apparatus with agitators which can be moved out of contact with the filtering medium. 2.

761. C. Vacher.—5 Oct. 1912; UK. 2606, 1 Feb. 1911. Spray producers for irrigation. 1.

762. C. Vacher.—5 Oct. 1912; UK. 2607, 1 Feb. 1911. Spray producers for irrigation. 1.

763. Nobel's Explosives Co., Ld.—11 Oct. 1912; UK. 3224, 9 Feb. 1910. Tetra-nitro-aniline, used in the manufacture of explosives and dyes, is prepared by nitrating meta-nitraniline or its derivatives.

764. Hamilton's Aërial Syndicate, Ld.—6 Aug. 1912; UK. 886, 13 Jan. 1910. Railways of suspended type with the track supported by sectional suspenders from a flexible cable, etc. 4.

765. A. A. Perkins & E. Double.—6 Aug. 1912. Oil wells grouted with cement to exclude water. 1.

766. Starr, A. B.—Boxes and cases.

767. Reddie, L. N.—Phonographs.

768. Reddie, L. N.—Phonographs.

769. L. Lumiere.—11 Oct. 1912; UK. 27,945, 1 Dec. 1910. Talking machine, sound boxes with an adjustable side. 1.

770. B. G. Royal.—5 Nov. 1912; UK. 1611, 21 Jan. 1911. Talking machines, with accelerating and retarding gear. 3.

771. P. D. H. Ohlhaver.—8 Feb. 1912; UK. 27,573, 8 Dec. 1911. Yeast in the dried state is kept active by placing hygroscopic substances in the container.

772. P. D. H. Ohlhaver.—8 Feb. 1912; UK. 27,574, 8 Dec. 1911. Yeast in the dried state is restored to activity by exposure to air, preferably moistened.

773. A. Fischer.—8 Feb. 1912; UK. 22,784, 6 Oct. 1909. Talking machine sound conduits or horns with reflecting surfaces at bends. 1.

774. H. C. Braun.—2 April 1912; UK. 27,032, 2 Dec. 1911. Metal spinning machine, specially for capsuling bottles. 2.

775. H. K. Harris.—2 April 1912; UK. 6784, 17 March 1910. Advertising device with rollers, etc., controlled electrically. 2.

776. J. F. F. W. Ure.—2 April 1912. Tyres of pneumatic type with special attachment for metal plates. 1.

777. H. S. Hele-Shaw & F. L. Martineau.—31 July 1912; UK. 9402, 18 April 1910. Pumps or motors with radial pistons, details of pistons, stroke varying means, and lubrication. 2.

778. H. S. Hele-Shaw & F. L. Martineau.—31 July 1912; UK. 6897, 18 March 1910. Cranes and lifts worked hydraulically by continuously driven variable stroke pumps with automatic control and safety devices. 2.

779. G. Henning & W. G. Pfeil.—8 Feb. 1912. Telescoping masts with screw elevator and coupling devices. 2.

780. L. Salter.—8 Feb. 1912; UK. 30,264, 30 Dec. 1910. Sewing machine of the chain stitch type. 1.

781. Nolan, A. H.—Latrines.

782. L. H. Raw & R. Sumner.—29 July 1912; UK. 20,173, 25 Sept. 1909. Ramie, china grass, etc., is exposed in contact with earth as a preliminary process in the preparation of fibre See also No. 454 of 1909.

783. D. Elder.—26 Feb. 1912; UK. 6979, 20 March 1911 Wire binding machine specially for attaching wire netting to fencing wires. 2.

784. Reddie, L. N.—Phonographs.

785. Dennison, W. N.—Phonographs.

786. Gramophone Co., Ld., & Reddie, L. N.—Phonographs.

787. J. L. Davis & J. E. Cox.—4 Dec. 1912; UK. 843, 12 Jan. 1911. Talking machines with automatic brake. 1.

788. L. Lumiere.—18 Jan. 1913; UK. 2985, 6 Feb. 1911. Acoustical instruments. 1.

789. L. Lumiere.—18 Jan. 1913; UK. 4045, 17 Feb. 1911. Talking machines with balancing arrangements for sound boxes which are moved by following the record line. 3.

790. L. N. Reddie.—18 Jan. 1913; UK. 17,881, 5 Aug. 1911. Talking machines, sound arm bearing. 1.

791. W. N. Dennison.—18 Jan. 1913; 18,990, 24 Aug. 1911. Talking machines, sound arm bearing. 1.

792. J. H. Messenger.—6 Aug. 1912; UK. 24,280, 19 Oct. 1910. Wheel tyre covers with ribs and projections, strengthening cords embedded, inner corrugated tubes and intermediate studded bands. 2.

793. R. D. Wagner.—11 Oct. 1912; UK. 24,906, 26 Oct. 1910. Socket and screw spike specially applicable for fixing rails to wooden sleepers. 1.

794. H. Leitner.—7 March 1912; UK. 27,396, 24 Nov. 1910. Electrically lighting trains from bus-bars to which all the batteries on the train are coupled. 1.

795. A. Beldam.—13 Feb. 1912; UK. 21,079, 10 Sept. 1910. Spring wheels or wheel rims with radial and other springs, adapted to replace pneumatic tyres. 1.

796. P. B. Jagger.—22 June 1912; UK. 29,490, 16 Dec. 1909. Rails are secured to concrete sleepers by screw spikes screwed into wooden trenails in holes surrounded by a wire coil. 1.

797. P. B. Jagger.—30 July 1912; UK. 5500, 4 March 1910. Collapsible cores for making hollow concrete posts, etc. Reference is made to No. 195 of 1908. 3.

798. P. B. Jagger.—20 Feb. 1912; UK. 5501, 4 March 1910. Moulding concrete pipes. Reference is made to No. 195 of 1908. 2.

799. T. Gare.—22 July 1912; UK. 8298, 3 April 1911. India-rubber is combined with ebonite, textiles, etc., in continuous lengths in a press with separate feed and rams. Reference is made to No. 32 of 1909. 1.

800. Sir B. Leslie.—13 Feb. 1912; UK. 19,031, 24 Aug. 1911. Draw-bridge with two folding leaves suspended by chains arranged so that the centre of gravity is not raised. 1.

801. J. W. Cook.—27 Feb. 1912; UK. 16,300, 8 July 1910. Carding engine cylinders are cleaned by suction apparatus. 1.

802. S. C. Davidson.—13 Feb. 1912; UK. 23,928, 15 Oct. 1910. Tea leaf rolling machines with containers as described in Nos. 692 of 1909, 183 and 184 of 1910, having special forms of rotary helical stirrers and retarding devices on the containers. 6.

803. V. Scappaticcio.—18 March 1912; UK. 24,649, 6 Nov. 1911. Rope and cord machines. 3.

804. H. W. Izod.—6 Aug. 1912; UK. 18,593, 12 Aug. 1909. Carburetted air for engines, power, etc., with additions of oxygen or ozone. 1.

805. S. G. S. Dicker.—17 Jan. 1913; UK. 29,654, 18 Jan. 1910. Telephone automatic or semi-automatic systems. See also No. 737 of 1911. 4.

806. T. Gare.—11 Dec. 1912; UK. 18,174, 21 Aug. 1909. India-rubber goods made, etc., as described in No. 32 of 1909, with temporary heat insulation while air is expressed.

807. T. Gare.—11 Dec. 1912; UK. 19,283, 21 Aug. 1909. India-rubber goods made by compressing successive small quantities of material into a heated mould. Reference is made to Nos. 32 and 695 of 1909. 3.

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NOTE.—**For particulars of applications for patents made in 1912 and in subsequent years, under the Indian Patents and Designs Act, reference should be made to the "Patent Office Journal" for 1913 and onwards.**

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——, G. E. C. 467/02
——, H. E. A. 490/03
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——, W. M. 348/01
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Walcutt, J. M. . . . 184/09
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——, C. N. E. . 478/01, 82/02
——, J. F. . . . 228/10
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——, A. E. . . . 467/03
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——, C. B. . . . 130/10
——, C. T. . . . 164/08
——, E. S. F. . . . 483/00
——, F. S. . . . 330/07
——, G. . . 467/03, 81/10
——, H. 244/00
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——, J. J. . . . 563/05, 261/06, 262/06
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——, W. 45/01, 387/01, 416/02
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Wall, A. W. . . . 557/09
——, B. P. . . . 245/00
Wallace, J. S. S. . . 342/01
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——, E. F. . . . 146/04, 285/04, 481/10
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——, G. A. . . . 142/02
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Whittle, T. 66/07, 310/07
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——, A. E. 490/11, 612/11
——, A. J. B. . . 410/08
——, C. E. . 620/11, 650/11
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——, J. F. . . . 332/03
——, J. W. . . . 56/11
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——, J. N. . . . 497/10
——, P. A. E. . . . 475/01
——, S. P. . . . 331/05
——, T. A. S. . . 417/06
——, T. J. . . . 417/00
——, W. H. . . . 79/06
Woodcock, W. J. . . 246/04
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Woodhouse, A. A. . . 450/07
——, W. A. . . . 286/01
Woodman, A. . . 569/07
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Worthington, H. L. . . 505/10
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——, E. . . 129/09, 404/09
——, (Mrs.) F. L. . . 320/02
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——, W. T.	431/02
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——, D. J.	288/02
——, E H.	147/02, 446/04
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——, H. H.	164/02, 516/02, 10/03, 56/03, 347/06
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——, J E.	404/02
——, J. T.	24/03
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Acetylene (*see also* Lamps). **1900**—23, 50, 118, 149, 161, 170, 185, 240, 318; **1901**—8, 40, 57, 99, 104, 121, 282, 291, 323, 351; **1902**—33; **1903**—282, 457; **1905**—84, 93, 104; **1906**—6, 16, 52, 410, 563; **1907**—293, 409; **1909**—512, 603; **1910**—466, 599.

Advertising and displaying. **1903**—249, 349; **1904**—138; **1905**—431, 477; **1906**—220, 408; **1907**—125; **1909**—372, 418, 548, 572; **1911**—13, 102, 357, 507, 685, 775.

Aërating and bottling (*see also* Stoppering). **1900**—150, 324, 446, 452, 473; **1901**—249, 250, 257, 354, 356, 379, 420, 462, 482; **1902**—107, 191, 357, 274, 368, 369, 493; **1903**—26, 27, 247, 274, 379, 397, 523; **1904**—185A, 392, 452, 536; **1905**—40, 329, 528; **1906**—576; **1908**—357, 111; **1909**—496; **1910**—158, 251; **1911**—72, 234, 515, 759.

Aëronautics. **1900**—387, 467; **1905**—78; **1906**—481; **1907**—52, 406; **1908**—498, 533; **1909**—40, 268, 462, 683; **1910**—105, 156, 262, 320, 362, 377, 420, 446, 643; **1911**—90, 91, 220, 262, 263, 264, 265, 335, 462, 511, 564, 734.

Agriculture. **1900**—66, 77, 78, 79, 402, 427; **1901**—9, 54, 359, 396, 421; **1902**—63, 290, 377, 430; **1903**—58, 147, 220, 257, 308, 448, 469, 487; **1904**—144, 184; **1906**—466, 570; **1907**—250, 483, 512, 522; **1908**—35, 51, 86, 102, 230, 511; **1909**—28, 44, 138, 251, 326, 435, 623; **1910**—8, 50, 226, 238, 239, 257, 471, 501, 516, 574; **1911**—149, 172, 275, 386, 399, 457, 493, 590, 619.

Air and gases—

Compressing and exhausting. **1900**—198, 384, 385, 409; **1901**—7, 201, 263; **1902**—373, 440; **1903**—85; **1904**—512, 520; **1905**—380; **1906**—5, 6, 86, 309, 332; **1907**—85, 461, 505, 577; **1908**—128, 167, 193, 252, 361, 382; **1909**—611, 630, 641; **1910**—182, 279, 288, 301, 328, 352, 369, 370; **1911**—37, 169, 519, 628, 740.

Otherwise treating (*see also* Cooling, Furnaces, Ventilation, etc.). **1900**—268; **1901**—144, 182, 196; **1902**—157, 206, 219, 318; 325, 374, 380; **1903**—354, 431; **1904**—76, 358, 427; **1905**—55, 81, 138, 250, 313, 447; **1906**—25, 86, 179, 489, 595; **1907**—244, 262, 270, 271, 328, 543; **1908**—3, 239; **1909**—91, 112, 156, 315, 330, 338, 594, 658; **1910**—13, 49, 118, 185, 298, 369, 370, 444, 490, 542, 659; **1911**—4, 36, 610, 670.

Alarms, fire and temperature—*see* Fire extinction.

Almirahs—*see* Furniture.

Albumen. **1907**—248.

Alcohol (*see also* Beverages). **1900**—412; **1904**—493; **1910**—298; **1911**—115.

Alkalies (*see also* Ammonia and various metals). **1904**—101; **1905**—180, 181, 475.

Alloys (*see also* various metals). **1900**—167, 168, 346; **1902**—44; **1906**—88, 397; **1907**—233; **1909**—543, 686; **1910**—367, 368, 431; **1911**—674.

Almanacs—*see* Books.

Aluminium and compounds. **1901**—255; **1905**—530; **1906**—88; **1907**—233, 605; **1910**—261, 317, 333, 334, 340, 348, 482; **1911**—310.

Ambulance—*see* Road vehicles.

Ammonia. **1903**—365; **1904**—406; **1905**—71; **1908**—265; **1910**—340; **1911**—57, 58, 635, 641.

Animal power engines, general (*see also* Treadmills, water lifts). **1909**—206, 509.

Antimony and compounds. **1911**—318.

Arches—*see* Buildings.

Armoured concrete—*see* Cement and concrete.

Arms and ammunition—

Cartridges. **1900**—270; **1902**—362, 394, 479; **1903**—473; **1911**—393.

Cartridge-holders and bandoliers (*see also* Equipments, etc.). **1900**—411; **1901**—330; **1903**—122, 348; **1904**—274; **1905**—131, 144, 256, 574; **1907**—60, 450; **1908**—513, 528; **1909**—590; **1910**—325, 409, 652; **1911**—87, 88.

Explosives—*see* Explosives.

Fuzes. **1905**—515; **1908**—548.

Guns and rifles. **1900**—146, 313, 391, 420, 422; **1901**—23, 24, 358; **1902**—31, 277, 345; **1903**—280, 281, 293, 436; **1904**—1, 2, 248, 261; **1905**—182, 196, 372, 400, 536, 573; **1906**—7, 116, 317, 319, 526, 587, 606; **1907**—109, 120, 146, 178, 189, 306; **1908**—34, 148, 153, 233, 295, 429, 458; **1909**—147, 213, 413, 558, 625, 628; **1910**—67, 154, 511, 575; **1911**—245, 373, 374, 488, 728.

Gun and rifle carriers. **1903**—122, 341; **1904**—261; **1910**—325; **1911**—196.

Gun and rifle racks. **1900**—35, 146; **1902**—292; **1905**—152, 255; **1907**—545.

Ordnance. **1903**—281; **1904**—2, 477; **1905**—452; **1907**—458, 459; **1911**—728.

Pistols. **1900**—146; **1906**—313; **1910**—556; **1911**—488.

Range-finders. **1902**—345; **1905**—490; **1906**—281; **1908**—210; **1909**—147, 163, 413; **1911**—536, 699, 700.

Shot and projectiles. **1902**—518; **1903**—139, 254; **1904**—327, 478; **1906**—186, 494; **1907**—338; **1908**—548; **1909**—48, 450; **1910**—68, 578; **1911**—105, 629, 756, 757.

Spears and lances. **1902**—467.

Arsenic and compounds. **1901**—177; **1910**—650; **1911**—318, 744.

Asbestos. **1903**—259; **1910**—395.

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Bags—*see* Boxes, bags and cases.

Baling—*see* Packing.

Bangles. **1903**—417; **1904**—439; **1906**—238; **1907**—533.

Barium and compounds. **1900**—419; **1905**—266.

Baskets—*see* Boxes, bags and cases.

Baths. **1900**—28, 73; **1902**—288; **1903**—428; **1907**—507; **1908**—49.

Bearings (*see also* Vehicles of various kinds; Lubricating, etc.). **1900**—88; **1901**—308, 310, 428; **1902**—9, 27, 52, 57, 155, 255, 258, 328, 335, 378, 487; **1903**—126; **1904**—91, 208, 292, 293, 328, 441, 511, 518, 533; **1905**—17, 57, 70, 293, 334, 445, 535, 542, 581; **1906**—251, 295, 384, 398, 425, 431, 437, 490, 492, 557; **1907**—129, 209, 497, 508; **1908**—70, 92, 98, 113, 334, 434; **1909**—114, 301, 370, 514, 601, 643; **1910**—12, 87, 192, 316, 332, 338, 355, 395, 520, 550; **1911**—251, 606, 674.

Bedsteads—*see* Furniture.

Beer—*see* Beverages.

Betel. **1911**—365.

Bevel-gearing—*see* Mechanism.

Beverages (*see also* Aërating; Coffee; Tea). **1900**—99, 217, 412; **1901**—236; **1904**—149, 493; **1905**—90; **1907**—206, 255, 261; **1908**—16; **1909**—166, 671, 689; **1910**—547; **1911**—615.

Bicycles (*see also* Wheels and tyres for vehicles). **1900**—39, 305, 409; **1901**—47, 149, 203, 273, 286, 298, 343, 367, 396; **1902**—103, 211, 376, 500; **1903**—52, 53, 462; **1904**—48, 266, **1905**—78, 105, 262, 294, 364, 543; **1906**—259, 263, 277, 309; **1909**—369, 557; **1910**—483; **1911**—107.

Billiards. **1901**—48; **1904**—399; **1905**—179, 189; **1906**—485; **1908**—126; **1909**—243, 286, 581; **1910**—528, 539; **1911**—528.

Biscuits—*see* Food.

Bleaching. **1900**—406; **1901**—186, 212; **1902**—125; **1903**—515; **1904**—296; **1905**—235, 428; **1906**—2; **1907**—58; **1909**—126, 212, 305, 334; **1910**—128.

Blending tea—*see* Tea.

Blotting-pad. **1903**—222.

Boats—*see* Ships and boats.

Bogies—*see* Railway and tramway vehicles.

Boilers—*see* Heating; Steam generators.

Boiler tube cleaners—*see* Pipe and tube cleaners.

Bolts, studs, nuts, and washers. **1900**—133; **1901**—88, 148, 334, 472; **1902**—195, 264; **1903**—335; **1904**—8, 366, 390, 431, 509; **1905**—130, 165, 209, 276, 287, 288, 420, 437; **1906**—182, 269, 372, 472, 536; **1907**—17, 187, 257; **1908**—131, 538; **1909**—30, 73, 113, 439, 440, 567; **1910**—275, 567; **1911**—126, 219, 290, 793.

Bone black. **1904**—396.

Books. **1900**—349; **1901**—120, 274; **1902**—39, 49, 315, 504; **1903**—114, 222; **1904**—200, 294, 423, 551; **1905**—228, 477; **1906**—453; **1907**—325, 424, 490; **1908**—301, 326; **1909**—65, 314; **1910**—283; **1911**—492.

Boring and drilling. **1903**—102; **1904**—365, 376, 472; **1905**—226, 254; **1906**—509; **1909**—236; **1910**—453.

Boots and shoes. **1900**—6, 117; **1901**—36, 248, 277, 279, 288, 340; **1903**—68, 424; **1904**—80, 173, 463; **1905**—231, 472; **1906**—49; **1907**—74, 300, 369, 434; **1908**—91, 356; **1909**—93, 231, 248, 264, 313, 436, 460, 524, 552; **1910**—607; **1911**—348, 454, 461.

Boot and shoe trees. **1907**—62.

Boron and compounds. **1907**—233.

Bottling—*see* Aërating and bottling; Stoppering.

Bottle-washing—*see* Washing glasses, etc.

Boxes, bags and cases (*see also* Cans). **1900**—137, 190, 285, 369, 476, 477; **1901**—220, 320, 338, 339, 483; **1902**—34, 82, 90, 115, 166, 262, 272, 346, 398, 415, 501; **1903**—17, 185, 186, 193, 324, 330, 348, 350, 498, 511; **1904**—71, 231, 303, 349, 363, 437, 438; **1905**—4, 131, 144, 163, 205, 242, 290, 355, 359, 406, 408, 413, 444, 479, 556; **1906**—89, 187, 209, 217, 273, 419, 488, 529, 593, 602; **1907**—16, 41, 70, 194, 317, 561, 571; **1908**—2, 136, 260, 261, 519; **1909**—18, 287, 472, 635, 642, 657; **1910**—144, 385, 394, 452, 460, 526, 635; **1911**—127, 170, 185, 218, 329, 388, 414, 427, 428, 716, 748, 766.

Braiding machines. **1901**—44; **1902**—299.

Brakes—*see* Bicycles, Locomotives; Motor cars; Railway and tramway vehicles.

Branding (*see* Labels, etc.). **1911**—171.

Bread—*see* Food.

Bread cutters. **1910**—215.

Bricks and tiles (*see also* Cement, etc.; Furnaces and kilns). **1900**—19, 87, 216; **1901**—89, 143, 235, 313, 336, 401, 487; **1902**—65, 168, 449, 506; **1903**—25, 97, 188, 228, 371, 441, 442, 472; **1904**—3, 73, 126, 127, 324, 333, 336, 541; **1905**—126, 291, 438, 518, 555, 572; **1906**—76, 266, 380, 461, 501, 519; **1907**—190, 398, 429, 550; **1908**—307, 417; **1909**—179, 205, 282, 424, 501, 633, 637; **1910**—168, 292, 546, 621; **1911**—15, 248, 284, 680.

Bridges. **1901**—106, 295; **1902**—521; **1907**—612; **1908**—340; **1910**—576; **1911**—800.

Bridles—*see* Harness and saddlery.

Brushes. **1900**—210, 463; **1903**—466; **1904**—419; **1906**—498; **1909**—19, 242; **1910**—374, 567; **1911**—116.

Buckles. **1900**—436, 456, 461, 462; **1901**—176; **1907**—143, 459; **1910**—664; **1911**—330.

Buffers—*see* Railway and tramway vehicles.

Buildings and structures. **1900**—19, 119, 122, 143, 144, 280, 399; **1901**—21, 235, 295, 336; **1902**—10, 61, 452, 521; **1903**—69, 128, 136, 227, 236, [illegible], 329, 338, 371, 475; **1904**—3, 32, 73, 390, 509, 541; **1905**—30, 128, 136, 157, 238, 289, 297, 321, 352, 401, 417, 551, 555, 565; **1906**—9, 148, 343, 482, 601; **1907**—63, 78, 151, 163, 172, 339, 373, 393, 418, 543, 612; **1908**—72, 102, 104, 352, 377, 486, 506, 536; **1909**—87, 179, 205, 280, 381, 412, 455, 502, **1910**—11, 176, 248, 382, 546, 557, 631, 632; **1911**—78, 431, 602, 603.

Bulking tea—*see* Tea.

Bullets—*see* Arms and ammunition.

Buoys—*see* Hydraulic engineering; Life saving.

Butter. **1902**—388, 431; **1903**—343; **1905**—98; **1907**—416.

Buttons. **1900**—413; **1901**—261.

C

Caissons. **1910**—363.

Calcium and compounds. **1900**—419; **1909**—512, 545; **1910**—306.

Calendering fabrics. **1911**—438.

Camphor. **1901**—473; **1909**—57.

Calculating—*see* Indicating, registering and recording.

Cameras—*see* Photography.

Candles and night lights. **1902**—161, 282, 494; **1905**—464, 465; **1908**—47; **1910**—268, 498; **1911**—356, 385.

Cans. **1900**—214, 391; **1901**—10, 45, 55, 209, 244, 270, 318, 327, 356, 378, 399; **1902**—34, 137, 145, 190, 403, 415; **1903**—185, 186, 193, 396, 415, 439, 517; **1904**—90, 414; **1905**—56, 140; 353, 376, 433, 455; **1906**—19, 338, 449, 542, 563, 617; **1907**—192, 352; **1908**—305, 387; **1909**—29, 58; **1910**—55, 235, 589, 667; **1911**—352, 415, 446, 526, 597, 661.

Carbon. **1909**—126.

Carbon compounds, organic. **1900**—221, 263; **1901**—473; **1902**—102, 116; **1908**—173; **1910**—207, 298, 393, 650; **1911**—155, 193, 250, 356, 620, 650, 654, 691, 692, 693, 696, 726, 744, 763.

Carbonic acid. **1903**—247; **1905**—329, 429; **1906**—543.

Card games—*see* Games and toys.

Caoutchouc—*see* India-rubber.

Caps—*see* Dress.

Carting—*see* Spinning.

Carpets (*see also* Weaving). **1910**—388.

Cartridge holders—*see* Arms and ammunition.

Cash machines. **1900**—213; **1901**—110, 137; **1902**—262; **1904**—121, 122, 123, 344; **1907**—38, 327; **1908**—278, 495.

Casks and barrels (*see also* cans). **1900**—351; **1906**—222; **1907**—352; **1909**—568.

Casting metals—*see* Metal working.

Castors—*see* Furniture.

Catamenial appliances. **1904**—550.

Celluloid. **1900**—116; **1902**—507; **1905**—134; **1906**—238, 537, 569; **1909**—59; **1911**—45, 691.

Cellulose. **1901**—403; **1902**—422; **1903**—259; **1905**—162, 214, 215, 268; **1906**—2, 4, 537; **1907**—248; **1909**—570; **1910**—372, 467; **1911**—45, 127, 312, 349, 581, 582.

Cement and concrete. **1900**—31, 32, 33, 34, 229, 241, 450; **1901**—4, 89, 309, 336, 417, 447; **1902**—10, 261, 455; **1903**—25, 77, 144, 236, 376, 377, 441; **1904**—3, 73, 102, 131, 387, 494, 541; **1905**—30, 153, 297, 401, 484, 518, 529, 551, 565, 572; **1906**—22, 23, 51, 55, 80, 97, 148, 150, 266, 325, 385, 460, 531; **1907**—339, 376, 393, 397, 550; **1908**—41, 72, 81, 134, 195, 242, 245, 297, 298, 307, 417, 466, 483; **1909**—149, 192, 205, 304, 324, 359, 412, 416, 448, 501, 502, 678; **1910**—42, 91, 166, 209, 221, 258, 291, 295, 363, 382, 457, 554, 631, 632, 646; **1911**—78, 84, 129, 131, 198, 284, 306, 317, 431, 537, 602, 603, 667, 745, 797, 798.

Centrifugal fans and pumps (*see also* Heat engines, Rotary engines, Punkahs). **1900**—128, 308, 319, 377, 395, 403; **1901**—129, 153, 193, 230, 278, 348; **1903**—234, 314; **1904**—69, 85, 293, 319; **1905**—38, 171, 184, 185, 493; **1906**—447, 533; **1907**—69, 172, 280, 559; **1908**—40, 70, 71, 104, 197, 346, 365, 492, 517, 533; **1909**—90, 91, 292, 357, 477, 630, 638, 641; **1910**—13, 321, 339, 341, 351, 410, 520; **1911**—458, 514, 529, 577, 606.

Centrifugal separators. **1901**—221A, 395, 493; **1903**—214, 322, 369; **1904**—360; **1906**—433, 595; **1907**—19; **1908**—457; **1909**—194; **1910**—177, 227, 307.

Chairs—*see* Furniture; Railways.

Chains. **1904**—211; **1906**—436; **1908**—308.

Charcoal (*see* Fuel). **1911**—232, 233.

Cheques—*see* Books.

Chimneys—*see* Lamps; Locomotives.

Chlorine. **1901**—186; **1903**—501, 515; **1904**—101, 348; **1905**—235; **1906**—2.

Chromium and compounds. **1901**—190; **1908**—280; **1910**—162.

Churns—*see* Butter.

Cigars and cigarettes (for holders *see* Pipes, cigar, etc., holders). **1900**—285, 369, 389; **1901**—197, 276; **1902**—153, 398; **1903**—47, 232; **1904**—442, 488; **1905**—392, 440; **1906**—18, 26, 187, 209, 248, 331, 615; **1907**—166, 230, 231, 416; **1908**—388; **1909**—17, 18; **1910**—1.

Cinematographs. **1907**—108; **1908**—201, 362; **1909**—343, 612; **1910**—32; **1911**—121, 173, 604, 679.

Ciphers and codes. **1901**—25A, 293; **1907**—607; **1909**—160.

Cisterns—*see* Water tanks.

Cleaning and polishing compositions. **1907**—511; **1909**—38, 460; **1910**—41, 125, 172, 249, 250, 261, 603; **1911**—260.

Clinometers—*see* Surveying.

Clocks and watches. **1900**—403, 418, 421; **1902**—124; **1903**—65, 66; **1906**—17, 173; **1907**—403, 584; **1908**—452, 496; **1911**—315, 372, 458.

Closets, water—*see* Latrines.

Clothes hangers—*see* Furniture.

Clutches—*see* Mechanism.

Coal gas—*see* Gas manufacture.

Coal—*see* Fuel; Mining.

Cobalt and compounds. **1906**—200.

Cocoa and chocolate. **1906**—600.

Coffee. **1900**—76, 432; **1901**—105, 136; **1903**—223; **1904**—134, 259, 375; **1908**—349; **1910**—460; **1911**—86.

Coffee pots—*see* Tea and coffee pots.

Coinage. **1911**—423.

Coin-freed apparatus. **1900**—423; **1902**—448; **1903**—151, 433; **1904**—187; **1905**—318, 507; **1906**—189, 409, 599; **1908**—502; **1909**—407, 408; **1910**—1, 504.

Cold insulation—*see* Coverings and composition, non-conductors of heat.

Collar boxes. **1910**—394.

Colours—*see* Paints.

Combs. **1908**—330; **1909**—133.

Compass, magnetic. **1907**—609, 610; **1910**—309, 343.

Compo board—*see* Wood and wood working.

Compositions, plastic. **1909**—217.

Compressing air—*see* Air and gases.

Concrete—*see* Cement.

Conveyors—*see* Lifting and loading.

Cooking appliances. **1901**—41, 333; **1902**—427; **1903**—29, 79, 127, 133, 445; **1906**—153, 471, 540; **1907**—173; **1908**—48, 132, 223, 268, 380; **1909**—485, 587, 622; **1910**—186, 188, 308, 488, 513, 517, 563, 618, 653; **1911**—64, 125, 128, 154, 336, 354, 443, 613, 658.

Cooling and ice-making. **1900**—142, 176, 179, 198, 259, 272, 273, 308, 352, 466; **1901**—201, 207, 233, 267, 311, 377, 462, 465, 479, 490; **1902**—117, 314, 317, 325, 334, 373; **1903**—266, 279, 406; **1904**—19, 42, 50, 168, 246, 358, 512, 524; **1905**—81, 161, 221, 320, 579; **1906**—348, 332, 403, 548, 549; **1907**—172, 217, 218, 255, 271, 368, 381, 543; **1908**—27, 68, 80, 180, 232, 371, 446, 447; **1909**—338, 399, 442, 447, 461, 594, 658; **1910**—37, 49, 309, 329, 487, 590, 660; **1911**—267, 376, 377, 383, 610, 626.

Copper and compounds. **1902**—54; **1904**—264; **1905**—94, 95, 334; **1906**—88, 200; **1907**—525; **1909**—309, 371; **1910**—579.

Copy book—*see* Books.

Cork. **1906**—285.

Corpses, treatment and disposal of. **1900**—269; **1906**—62; **1907**—488; **1911**—221.

Cotton baling—*see* Packing.

Cotton ginning—*see* Spinning.

Cotton picking and harvesting. **1900**—469; **1904**—354, 413; **1905**—50, 316, 343, 371, 443; **1906**—183, 389; **1907**—259; **1910**—34, 245, 246, 297; **1911**—140, 145, 150, 162, 164, 168, 177.

Cotton spinning—*see* Spinning.

Counting—*see* Indicating, registering and recording.

Couplings—*see* Railway and tramway vehicles.

Couplings belt and rope—*see* Mechanism.

Coverings and compositions, non-conductors of heat. **1901**—180, 238, 301; **1902**—338; **1903**—99; **1904**—25, 66, 402; **1905**—126, 243, 291, 430, 549; **1906**—169; **1907**—550; **1910**—395; **1911**—623.

Cradles—*see* Furniture.

Cranes—*see* Lifting, etc.

Crematorium—*see* Furnaces and kilns.

Cricket—*see* Games and toys.

Cupels. **1904**—140.

Curtains—*see* Furniture.

Cutting cloth. **1901**—289, 425; **1906**—93.

Cyanogen and compounds. **1903**—239, 463; **1910**—469.

Cycles—*see* Bicycles.

D

Decorticating fibres—*see* Spinning.

Deep boring (*see also* Rock Drills). **1900**—162, 396; **1903**—14, 497; **1904**—172; **1905**—254; **1907**—44, 55, 289, 407; **1908**—51; **1909**—226, 239, 631; **1910**—436, 522; **1911**—80, 655, 682, 753.

Dentistry. **1902**—305; **1909**—527.

Deodorizing—*see* Disinfecting, etc.

Dhal—*see* Grain.

Diastase. **1904**—147; **1906**—301; **1907**—307.

Disinfecting, deodorizing, and sterilizing. **1900**—42, 269; **1901**—258, 393; **1902**—100, 116; **1903**—149, 159, 221, 267, 279, 366; **1904**—68, 251, 348, 514; **1905**—52, 101, 267, 396, 428, 449, 566; **1906**—44, 167, 194, 219, 249, 289, 544, 604; **1907**—175, 308, 327; **1908**—16, 21, 66, 129, 223, 283, 407, 430, 468; **1909**—8, 287, 348, 426, 444, 579; **1910**—645, 662; **1911**—36.

Distilling, concentrating and evaporating (*see also* Oils). **1900**—153, 221; **1901**—42, 207, 465; **1902**—83; **1903**—40, 481; **1904**—14, 107, 362; **1905**—296, 327, 577; **1906**—237, 356, 455, 554; **1907**—83, 142, 246, 495; **1908**—203, 206, 265, 384; **1909**—57, 106, 124, 442, 492; **1910**—145, 369, 370, 408, 422, 606; **1911**—55, 235, 244, 397, 411, 412, 639, 648, 708.

Doors and gates (*see also* Locks; Railway, etc., vehicles). **1900**—317; **1901**—130, 198, 346, 383, 481; **1903**—143, 218, 283, 454; **1904**—6, 9, 55, 226, 341, 469; **1905**—232, 247, 436, 462, 513; **1906**—68; **1907**—163, 312, 365; **1908**—23; **1909**—284, 342, 550, 647; **1910**—428; **1911**—89, 281.

Doubling and twisting yarns—*see* Spinning.

Dredging—*see* Hydraulic engineering.

Dress (*see also* Boots and shoes). **1900**—29, 190, 212, 435, 471, 482; **1901**—180, 238; **1902**—99, 469; **1903**—7, 156, 416; **1904**—137, 325, 550; **1905**—426, 442, 520; **1906**—94, 487, 561; **1907**—31, 213, 303, 434, 439; **1908**—84, 404; **1909**—384; **1910**—403, 551, 552, 553, 620; **1911**—87, 224, 254, 587, 638, 649, 746.

Drilling—*see* Boring and drilling.

Drying—
  Air. **1900**—268; **1907**—271; **1909**—112, 338; **1910**—444.
  Bone black. **1904**—396.
  Cake. **1900**—**232.**
  Coffee. **1910**—463.
  Cotton. **1901**—227.
  Cupboards. **1910**—346.
  Desiccating reagent. **1900**—285; **1905**—427; **1909**—287.
  Food. **1901**—42; **1905**—544; **1906**—600; **1907**—80, 229; **1908**—221.
  Gluten. **1900**—255.
  Grain. **1900**—338; **1901**—397; **1902**—132, 269; **1904**—36, 214; **1905**—86, 544; **1906**—476, 489; **1907**—557; **1908**—31; **1909**—75, 207; **1910**—237.
  Milk. **1904**—14; **1905**—296; **1906**—511, 600; **1907**—45; **1908**—221.
  Rice. **1904**—41; **1910**—463.
  Road material. **1909**—560; **1910**—634.
  Tea. **1900**—301, 426; **1901**—162, 182, 221A, 355, 493; **1902**—249; **1903**—80, 272, 306, 322, 336, 434; **1904**—120, 256, 279, 287, 330, 359, 375, 496; **1905**—69, 86, 114; **1906**—178, 179; **1907**—328, 336, 557, 592, 614; **1908**—31, 57, 58, 184, 197, 406; **1909**—110, 174, 283, 316, 487, 597, 598; **1910**—138, 231, 463; **1911**—1, 26, 42, 43, 187, 240, 304, 359, 501, 534, 557, 652.
  Vacuum apparatus. **1903**—117.
  Wood. **1908**—448; **1910**—527.
  Yeast. **1903**—483.

Dumb-bells—*see* Games and toys.

Dust bins. **1910**—303, 459.

Dust laying and removing. **1902**—81, 260; **1903**—20, 477, 478, 479, 480; **1905**—102; **1906**—86, 290, 608; **1907**—245; **1909**—520, 630, 641; **1910**—33, 190, 193, 203, 301; **1911**—344.

Dyeing, mordanting, washing and sizing yarns and fabrics. **1900**—71, 407, 447, 448, 485; **1901**—152, 405; **1902**—45, 96, 120, 149, 200, 306, 360, 363, 400; **1903**—92, 195, 196, 243, 407; **1904**—21, 57, 527; **1905**—23, 25, 310, 344, 482, 492; **1906**—177, 354, 364, 417, 463; **1907**—248, 277, 487, 544, 604; **1908**—2, 162, 214, 487, 490, 521; **1909**—66, 68, 271, 273, 397; **1910**—128, 207, 208; **1911**—92, 143, 364, 424, 627, 763.

Dynamos—*see* Electricity.

E

Easels. **1910**—460.

Educational appliances. **1910**—283.

Egg carriers. **1905**—14.

Egg openers. **1909**—303.

Electricity—

- Batteries and accumulators. **1900**—92, 309; **1901**—73, 100, 260, 264; **1902**—245; **1903**—38, 138, 145, 270; **1904**—178, 206, 474; **1906**—113, 480; **1907**—25, 131, 392; **1908**—85, 540; **1909**—308, 336, 401, 551, 593; **1910**—77, 181, 278, 432, 433, 610; **1911**—130, 282, 527, 623, 674, 686.
- Coherors (*see also* Telegraphs). **1910**—399.
- Conductors and cables. **1900**—207, 208; **1901**—337; **1902**—184, 185; **1903**—153; **1904**—497; **1905**—20, 33, 34, 54; **1906**—15, 335; **1907**—11, 445; **1908**—110, 120; **1909**—667, 678; **1910**—89, 131.
- Conduits. **1900**—286, 397; **1901**—205; **1903**—144.
- Couplings. **1901**—228; **1904**—426; **1906**—77, 327, 578; **1911**—27.
- Distribution. **1900**—83, 311, 326, 383, 415, 457, 468; **1901**—62, 66, 98, 109; **1902**—4, 86, 444, 477; **1903**—225; **1904**—83, 97, 197, 297; **1905**—12, 38; **1906**—12, 46, 283; **1907**—12, 13, 14, 392, 599; **1908**—46; **1909**—6, 475; **1910**—95, 96, 130, 432, 433, 530, 531, 532; **1911**—436, 552.
- Dynamos—*see* Generators *below*.
- Furnaces and heating. **1900**—44, 134, 153, 263, 282, 291, 426, 470; **1901**—133, 255, 376; **1903**—158, 494, 495; **1904**—26, 306; **1905**—193, 266, 584; **1906**—479; **1907**—47, 272, 273, 527; **1908**—48, 77, 120, 226; **1909**—151, 152, 153, 306, 449, 640; **1910**—164, 179, 317, 333, 528, 653; **1911**—156, 175, 366, 401, 430, 501, 707, 708.
- Fuses. **1900**—13; **1907**—149, 395.
- Generators. **1900**—7, 8, 83, 279, 311, 325, 326, 337, 358, 360, 378, 398; **1901**—15, 109, 410, 429, 435, 437, 461, 474; **1902**—75, 87; 207, 397, 485; **1903**—93; **1904**—228, 232, 238, 239, 482, 483; **1905**—192, 275, 334, 509; **1906**—71, 244, 442, 456, 545; **1907**—110, 112, 113, 599; **1908**—103, 115, 219, 414; **1909**—221, 422, 475, 480, 682; **1910**—350, 389; **1911**—39, 110, 194, 387, 552.
- Igniting apparatus. **1910**—350.
- Insulation. **1900**—207, 208, 379; **1901**—206, 446; **1905**—430, 549; **1907**—11, 193, 445; **1908**—15, 224, 328, 374; **1909**—49; **1910**—172, 404, 507, 623; **1911**—104, 686, 695, 696.
- Lighting. **1900**—97, 252, 261, 263, 289, 291, 327, 475; **1901**—123, 290, 446, 474; **1902**—6, 84, 85, 110, 183, 322, 326; **1903**—91, 93, 115, 116, 153, 225, 250, 378, 403, 527; **1904**—113, 350, 405; **1905**—38, 414, 466, 505, 509; **1906**—154, 159, 160, 161, 162, 201, 255, 319, 479; **1907**—127, 170, 391, 400, 401, 430, 527; **1908**—110—120, 226, 280, 309, 335, 336, 504; **1909**—259, 376, 475, 596; **1910**—389, 421, 432, 433, 447, 530, 531, 532, 559, 566, 645; **1911**—202, 229, 319, 387, 552, 566, 794.

Electricity—*contd.*

Lightning arrestors. **1900**—336, 380, 381.

Measuring. **1900**—14, 414, 437; **1902**—19, 68, 270, 332, 448; **1903**—435; **1904**—187, 517, 518; **1905**—338, 507; **1906**—14, 567; **1909**—407, 408, 423, 456; **1910**—259, 504, 558; **1911**—75.

Motors. **1900**—7, 55, 113, 180, 279, 310, 335, 337, 358, 359, 378, 382, 398; **1901**—153, 429, 435, 437, 461; **1902**—86, 178, 241, 250, 516; **1903**—118; **1904**—228, 232, 238, 239, 270, 293, 382; **1905**—48, 275, 334; **1906**—12, 14, 21, 46, 71, 442, 456, 545; **1907**—110, 111, 112, 113; **1908**—222, 537; **1909**—422; **1910**—196, 380, 389, 520; **1911**—28, 110, 434.

Rectifying currents. **1903**—6, 108, 158.

Resisting material. **1910**—560.

Rheostats—*see* Switches, etc., *below*.

Static. **1903**—211; **1904**—519; **1905**—35; **1910**—458.

Switches, cut-outs and controllers. **1900**—12, 13, 22, 53, 54, 56, 166, 180, 334, 390, 424, 468, 475; **1901**—22, 29, 32, 33, 34, 50, 62, 133, 141, 181, 369, 376, 377, 410; **1902**—136, 207, 275, 340, 453, 477; **1903**—121, 142, 153, 225, 333, 378, 403, 452, 453, 509; **1904**—26, 74, 97, 221, 298, 323, 489, 491, 505; **1905**—38, 54, 110, 150, 201, 331, 332, 414, 466, 509, 586; **1906**—77, 204, 214; **1907**—351, 360, 361, 405; **1908**—222, 258, 344, 444, 529; **1909**—140, 143, 246, 259, 375, 376, 391, 423, 456, 475, 599, 673; **1910**—95, 96, 130, 198, 259, 401, 432, 433, 530, 531, 568, 582, 610, 630; **1911**—28, 447, 666, 685.

Telegraphs and telephones—*see* Telegraphs and telephones.

Treatment of sewage. **1910**—426.

Trolley Poles. **1910**—342.

Electrolysis. **1900**—58, 155, 205; **1901**—185; **1902**—92, 196, 483; **1903**—112, 312, 313, 353, 429, 515; **1904**—101, 543; **1905**—94, 95, 335; **1906**—74, 199; **1907**—282, 340, 388, 423, 525; **1908**—478; **1909**—12, 340, 408, 423, 456, 615, 686; **1910**—259, 261, 426, 469.

Engines—*see* Gas and oil engines, Heat engines, Rotary engines, Steam engines, Treadmills, Windmills.

Entrenching appliances. **1900**—430; **1901**—165, 347; **1903**—90; **1906**—232, 422; **1907—82.**

Envelopes. **1901**—84; **1902**—251; **1905**—408; **1908**—260, 261; **1909**—548; **1911**—324.

Equipments and accoutrements (*see also* Arms, etc., cartridge holders). **1901**—339; **1905**—573; **1907**—60, 306; **1909**—589; **1911**—146, 181, 659, 660.

Evaporating—*see* Distilling, concentrating and evaporating.

Excavating. **1902**—69, 212; **1909**—495; **1910**—657.

Explosives. **1900**—61, 270; **1901**—166, 175, 243, 414; **1902**—114, 394, 406, 507; **1903**—321, 461, 473; **1904**—222, 332, 500, 542; **1905**—11, 64, 117, 118; **1906**—356, 560; **1907**—440, 449; **1908**—30, 130, 310; **1909**—41, 328; **1910**—20, 350, 485; **1911**—189, 190, 231, 624, 625, 735, 763.

Eyeletting. **1906**—233.

F

Fans—*see* Punkahs, Centrifugal fans and pumps.

Fastenings—*see* Locks and fastenings.

Fats—*see* Oils.

Fezes—*see* Dress.

Feeding bottles. **1908**—410.

Felt. **1910**—477; **1911**—280.

Fencing. **1903**—107; **1906**—20, 478; **1907**—160; **1908**—396, 506; **1910**—78; **1911**—210, 543, 576, 783.

Ferments (*see also* Diastase, Yeast). **1904**—147, 149; **1906**—530.

Filing papers. **1901**—409; **1902**—98, 366, 504; **1903**—157, 311, 392; **1904**—82, 363, 423; **1905**—359; **1907**—325; **1908**—151, 189, 485; **1909**—314, 528.

Files and rasps. **1907**—475; **1910**—46, 88, 108, 109, 110; **1911**—579.

Filtering air—*see* Air and gases; Ventilation.

Filtering water and other liquids. **1900**—126, 189, 243; **1901**—38, 415; **1902**—5, 117, 484; **1903**—266; **1904**—95, 212, 223, 335; **1905**—7, 24, 26, 129, 133, 176, 186, 268, 439; **1906**—85, 291, 516; **1907**—428; **1908**—44, 257, 364, 424, 475; **1909**—12, 13, 86, 197, 307, 468, 561, 562; **1910**—72, 152, 200, 213, 612, 656; **1911**—106, 109, 269, 537, 668, 674, 689, 738, 760.

Fingerprints. **1906**—593.

Fire arms—*see* Fire extinction.

Fire alarms—*see* Alarms, fire and temperature.

Fire bars—*see* Furnaces and kilns.

Fire extinction and prevention. **1901**—96, 258, 269, 344; **1902**—294; **1903**—132, 352; **1904**—58, 230, 415, 470, 541; **1905**—200, 305, 540; **1906**—104, 143, 515, 563; **1907**—163, 281; **1908**—5, 204, 445, 549; **1909**—28, 247; **1911**—36, 63, 121, 253, 347, 699, 700, 701.

Fire proofing. **1902**—41, 143, 232, 265, 385, 386;—**1904**—93, 40, 402; **1907**—186.

Fireworks. **1906**—466.

Floors—*see* Buildings and structures.

Fodder—*see* Food.

Fishing. **1903**—490; **1908**—105.

Folding and wrapping newspapers. **1911**—458, 563.

Food (*see also* Milk, etc.)—
  Animal. **1900**—160; **1901**—341, 345; **1902**—28, 225; **1904**—241, 493; **1905**—67, 72, 277, 512, 583; **1907**—383, 415, 586, 601; **1908**—366, 389; **1909**—635; **1911**—312.

  Human. **1900**—42, 160, 269, 367; **1901**—112, 125, 311, 357, 494; **1902**—50, 64, 125, 427, 431, 474; **1903**—149, 159, 191, 223, 267, 279, 288, 366, 445; **1904**—70, 139, 210, 211, 414, 514; **1905**—8, 191, 308, 544; **1906**—56, 219, 416; **1907**—80, 229, 307, 484, 532; **1908**—63, 129, 221, 391, 409; **1909**—212, 260, 291; **1910**—80, 180, 548; **1911**—356.

Fountains. **1910**—566.

Fuel (*see also* Furnaces; Gas manufacture). **1900**—26; **1901**—16, 97; **1902**—298, 375, 420; **1903**—137, 252, 315; **1904**—304, 464; **1905**—99, 194, 373, 386; **1906**—3, 4, 407, 474, 597; **1907**—72, 298, 385; **1908**—191, 379, 503, **1909**—262, 265, 266, 276, 445, 515, 542; **1910**—370, 371; **1911**--232, 233, 238, 323, 340, 358, 411, 412, 413, 417, 496, 500, 509, 582, 583, 621, 641, 647, 690.

Funnels or tundishes. **1900**—306; **1911**—352, 756, 757.

Furnaces and kilns—
  Air heating. **1900**—183, 273; **1901**—355; **1902**—242, 412; **1904**—287, 359; **1907**—226; **1908**—353; **1909**—156, 283; **1910**—463.

  Air supply. **1900**—98; **1902**—36; **1910**—30; **1911**—22, 77, 348.

  Annealing. **1905**—139; **1908**—507.

  Bone black. **1904**—396.

  Charcoal. **1910**—371; **1911**—232.

  Charging. **1908**—389.

Furnaces and kilns—*contd.*

Crematorium. **1901**—358; **1904**—358.

Coke ovens (*see also* Fuel, Gas manufacture). **1903**—137; **1910**—210, 370; **1911**—238, 840.

Crucible. **1902**—429; **1904**—16; **1906**—507.

Cupola. **1900**—125, 127; **1910**—435.

Desructors. **1900**—172; **1901**—241; **1902**—91, 105, 169; **1903**—30, 134, 146; **1904**—65, 157, 346; **1905**—138, 423; **1907**—564; **1909**—39, 263; **1910**—285.

Electric. **1900**—44, 263, 291; **1901**—133, 255; **1903**—158, 494, 495; **1904**—26, 306; **1905**—193, 266, 584; **1907**—47; **1908**—226; **1909**—151, 152, 153; **1910**—179, 317, 333.

Firebars. **1902**—437; **1903**—8, 447; **1904**—361, 521; **1905**—525; **1910**—461, 602, 648.

Forced draught. **1900**—183, 343, 443; **1902**—242; **1906**—168; **1909**—687; **1910**—687.

Furnace gases. **1908**—239.

Gas fired. **1900**—157; **1901**—172; **1903**—491; **1904**—18, 300, 301, 334, 353; **1910**—638; **1911**—56.

Gas producers—*see* Gas manufacture.

Glass. **1901**—485; **1904**—105, 540; **1905**—365; **1906**—302, 303, 304; **1908**—353.

Iron and steel. **1900**—63, 125, 127; **1902**—429; **1903**—339, 494, 495; **1904**—18, 334; **1905**—584; **1906**—581; **1907**—47; **1908**—177, 353; **1910**—293, 435.

Kilns. **1901**—1, 285; **1902**—36; **1903**—84, 173; **1904**—324; **1905**—111, 387; **1906**—363, 381, 507; **1907**—466, **1908**—20; **1911**—301, 743.

Linings. **1900**—33, 125, 127; **1902**—410; **1911**—284.

Locomotive. **1900**—177; **1903**—442, 443; **1905**—361; **1909**—687.

Mechanical stokers. **1901**—108; **1903**—76, 84, 230; **1905**—39; **1906**—142; **1911**—217.

Muffles. **1904**—141; **1906**—581.

Oil fired. **1900**—100, 157, 201; **1901**—172; **1902**—154; **1903**—248, 285, 442, 443, 491, 528; **1904**—359, 476; **1905**—285, 300, 340, 425; **1906**—452; **1907**—18; **1908**—359, 360; **1910**—228, 613; **1911**—24, 297, 345, 425, 523, 565.

Powdered fuel. **1900**—32; **1904**—534; **1905**—49.

Reverberatory. **1909**—128; **1910**—519.

Revolving. **1900**—32, 33; **1902**—429; **1904**—18, 334, 396; **1906**—3; **1910**—463.

Smoke consuming. **1900**—172, 183, 343; **1901**—1, 247; **1902**—91, 231, 242, 266, 311, 451; **1903**—64, 96, 205, 447, 492, 493; **1904**—51, 170, 196, 287, 300, 460, 521; **1905**—139, 361, 532; **1906**—40, 47, 87, 101, 351; **1908**—166, 194, 216, 423; **1909**—354; **1910**—81, 228, 648; **1911**—343, 476.

Steam generators. **1900**—100, 177, 183; **1901**—247, 481; **1902**—231, 242, 311, 412, 451; **1903**—64, 96, 111, 205, 492, 493; **1904**—51, 170, 196, 284, 300, 301, 521; **1905**—49, 139, 304, 525, 532; **1906**—40, 47, 87, 101, 168, 181, 351; **1908**—166, 359, 360; **1909**—354, 687; **1910**—30, 292; **1911**—77.

Stoves and fireplaces (*see also* Lamps). **1910**—294.

Furniture. **1900**—69, 110, 137, 171, 248, 388, 404, 464; **1901**—74, 289; **1902**—82, 90, 303, 313, 352, 450; **1903**—128, 311, 389, 428; **1904**—71, 111, 137, 138, 198, 254, 325, 338, 372, 473, 501; **1905**—259, 271, 534, 562, 569, 571; **1906**—60, 198, 249, 402, 510, 588; **1907**—90, 132, 205, 227, 606; **1908**—151, 202, 229, 232, 279, 288, 418, 461, 467, 485, 497, 508, 550; **1909**—62, 117, 345, 393, 417, 479, 662; **1910**—2, 212, 335, 346, 385, 451; **1911**—139, 203, 305, 441, 538, 611, 687, 729.

G

Galvanizing—*see* Tinning.

Gaiters—*see* Leggings.

Games and toys. **1900**—70, 227; **1901**—48, 113, 163, 170, 262, 338, 392, 411; **1902**—53, 186, 347, 478; **1903**—436; **1904**—59, 314, 399, 447, 548; **1905**—179, 189, 227, 453, 516; **1906**—60, 350, 485, 504, 524; **1907**—108, 329; **1908**—8, 12, 126, 279, 321, 381, 396, 455; **1909**—21, 53, 162, 310, 344, 350, 372, 379, 581; **1910**—116, 243, 282, 417, 480, 528, 539; **1911**—82, 141, 153, 159, 272, 326, 363, 381, 429, 459, 531, 533, 578, 748.

Gas and oil engines. **1900**—107, 204, 254, 264, 341; **1901**—3, 107, 146, 322; **1902**—7, 177, 324; **1903**—182, 213; **1904**—89, 158, 217, 247, 486; **1905**—66, 82, 211, 218, 309, 324, 348, 349, 531; **1906**—1, 73, 144, 145, 146, 211, 264, 310, 337, 387; **1907**—64, 71, 76, 85, 150, 191, 267, 379, 421, 477, 496, 563; **1908**—11, 18, 116, 167, 272, 273, 274, 344; **1909**—14, 47, 78, 227, 253, 293, 351, 352, 366, 367, 406, 498, 533, 569, 636; **1910**—9, 167, 182, 821, 327, 330, 331, 351, 352, 357, 359, 366, 455, 499, 541, 641; **1911**—101, 160, 201, 241, 242, 278, 299, 403, 450, 517, 518, 549, 575, 609, 628, 634, 662, 703, 704, 804.

Gas manufacture and distribution (*see also* Furnaces; Fuel). **1901**—241, 328; **1902**—177, 199, 242, 318, 375; **1903**—3, 21, 33, 95, 213, 316; **1904**—119, 242, 320, 513; **1905**—82, 208, 425, 501; **1906**—136, 202, 361, 362, 475, 512, 513, 563; **1907**—26, 39, 142, 200, 221, 298, 358, 535, 536, 546; **1908**—11, 83, 207, 251, 252, 264, 350, 397, 398, 462, 480, 481, 501, 503, 507, 522, 542, 547; **1909**—14, 81, 112, 123, 134, 181, 200, 265, 266, 272, 276, 362, 402, 406, 407, 446, 457, 522, 621, 663; **1910**—24, 40, 49, 117, 201, 252, 266, 322, 345, 444, 466, 490, 637; **1911**—17, 21, 93, 123, 155, 169, 179, 292, 293, 294, 298, 367, 368, 389, 467, 473, 479, 521, 584, 636, 641, 645, 646, 647, 648, 665, 710, 804.

Gas producers—*see* Gas manufacture.

Gates—*see* Doors and gates.

Gauges—*see* Indicating, registering and recording.

Gearing—*see* Mechanism.

Gelatine. **1906**—537; **1908**—201.

Ginning—*see* Spinning.

Glass manufacture. **1901**—171, 485; **1902**—213, 395; **1903**—271, 273, 417, 486; **1904**—105, 540; **1905**—362, 365; **1906**—30, 303, 304, 563; **1907**—295, 404, 429; **1908**—318, 353, 399; **1909**—67, 118; **1910**—378, 518; **1911**—437, 569, 596, 651.

Glazing (*see also* Windows). **1910**—598; **1911**—440.

Glue. **1905**—561; **1910**—121; **1911**—122.

Gold. **1901**—25, 64, 72, 135, 177, 285, 415, 416, 480; **1902**—92; **1903**—253, 337, 501; **1904**—148, 212, 223, 835, 360; **1905**—10, 26, 94, 95, 121, 311, 548; **1906**—74, 88, 199, 200, 257, 345, 585; **1907**—388; **1908**—141, 512; **1909**—109, 126, 135, 245, 309, 371; **1910**—26, 218, 458, 459, 573; **1911**—325, 351, 520, 580.

Golf—*see* Games, etc.

Goggles—*see* Spectacles.

Governors for engines and machinery. **1900**—37, 191, 254, 325; **1901**—11; **1904**—44; **1905**—168, 324; **1906**—264; **1910**—247, 432, 530, 641; **1911**—713.

Grain and seeds, treating—
- Boiling and steaming paddy. **1901**—397; **1902**—89, 114A, 268; **1903**—51; **1904**—36, 41, 214; **1908**—380; **1909**—75, 76, 207; **1910**—126.
- Conditioning. **1900**—338; **1901**—397; **1902**—132, 269; **1903**—515; **1904**—36, 41, 214; **1905**—86; **1906**—476, 489; **1908**—31.
- Cotton seed. **1900**—135; **1901**—17, 350, 403, 404, 405; **1902**—151, 152, 281, 413, 414; **1906**—306, 329; **1907**—341,

Grain and seeds, treating—*contd.*

Drying (*see also* Drying). **1910**—237, 463.

Hulling and similar machines. **1900**—375; **1901**—192; **1902**—176, 267, 481, 482; **1903**—130, 212, 238, 241, 470, 510; **1904**—31, 134, 146, 285, 286, 305, 343, 465, 515; **1905**—89; **1906**—95; **1908**—291, 401; **1909**—36, 116, 275, 584, 645, 672; **1910**—4, 364, 384, 628; **1911**—86, 180, 257, 605, 721.

Miscellaneous. **1901**—114, 192; **1902**—190; **1903**—383; **1904**—116, 146, 285; **1905**—222, 580; **1906**—138, 584; **1908**—122; **1909**—525; **1910**—102, 476.

Graphite. **1900**—134; **1903**—199; **1904**—103; **1905**—120, 274, 275, 280, 334; **1909**—391.

Grinding and crushing—

Disc mills. **1902**—176; **1910**—229, 364; **1911**—305, 480.

Impact pulverizers. **1900**—375; **1902**—126, 139; **1903**—510; **1904**—285, 286; **1905**—199; **1906**—22, 23, 95, 440; **1907**—341, 387; **1909**—36, 254, 503, 529; **1911**—342.

Oil mills. **1902**—328; **1904**—34, 525, 546; **1905**—220, 491; **1906**—299, 469; **1907**—228; **1909**—601; **1910**—411.

Pan mills. **1903**—183, 200; **1906**—78, 299, 426.

Pestle and mortar. **1900**—202; **1902**—481; **1903**—238, 241; **1904**—34, 515, 525, 546; **1905**—89, 220, 491; **1909**—101, 601, 672; **1910**—411; **1911**—180.

Roller. **1900**—76; **1901**—381, 386, 426; **1902**—176, 328, 337, 413, 414, 482; **1903**—130, 212; **1904**—31, 146, 417, 516; **1905**—57, 286, 542; **1906**—478; **1908**—147, 291; **1909**—115, 116, 260, 604; **1910**—474, 611; **1911**—361.

Stamps. **1901**—95, 122; **1902**—123; **1904**—515; **1905**—350; **1906**—70, 257, 465, 478; **1907**—276; **1910**—624.

Stone mills. **1902**—24; **1904**—96, 133, 343; **1905**—141; **1906**—274, 440; **1908**—401; **1909**—100; **1910**—12; **1911**—165, 466, 485.

Sugarcane. **1900**—15; **1901**—19, 20, 272; **1902**—491; **1903**—15; **1904**—249, 417; **1905**—57, 286, 542; **1906**—215, 299; **1907**—481; **1908**—334; **1909**—27, 115, 604.

Tea. **1904**—516.

Tube and ball mills. **1908**—254; **1909**—155; **1910**—573; **1911**—287.

Grinding, sharpening and polishing. **1901**—261; **1905**—156, 530, 585; **1906**—157, 367; **1907**—180, 269; **1909**—627; **1910**—58, 172, 605; **1911**—758.

Gums. **1906**—300; **1909**—56; **1910**—476; **1911**—118.

Guns—*see* Arms and ammunition.

Gyrostats. **1905**—78; **1908**—498, 508; **1910**—23, 111, 113; **1911**—404.

H

Hair dyes. **1900**—445.

Hair pins. **1900**—59; **1903**—135.

Hair removing compositions. **1903**—474; **1907**—34.

Harness and saddlery—

Breaking in. **1908**—420.

Bits. **1902**—42; **1907**—79, 314.

Bridles and martingales. **1901**—439; **1902**—148; **1903**—262, 508; **1904**—252; **1905**—407, 541; **1906**—69, 115, 296; **1908**—107.

Collars. **1901**—439; **1904**—275.

Clothing. **1906**—603.

Harness and saddlery—*contd.*
  Grooming appliances. **1900**—148.
  Knee caps. **1909**—274.
  Numnahs. **1910**—473.
  Reins. **1900**—147; **1909**—469.
  Saddles. **1900**—258, 417, 479; **1901**—384, 439; **1902**—515; **1903**—70, 242, 476; **1904**—132, 274, 283, 403; **1905**—65, 263; **1906**—582; **1907**—458, 459; **1908**—544; **1910**—409, 473, 508.
  Slings. **1909**—421.
  Stirrups. **1901**—103.
  Stopping or releasing runaway animals. **1904**—379; **1906**—272.
  Tethers. **1900**—438; **1902**—230, 349; **1906**—69, 296; **1911**—309.
  Traces. **1900**—211; **1901**—439; **1905**—91.

Harvesting—*see* Jute; Cotton.

Hats—*see* Dress.

Heat engines (*see also* contrifugal fans, etc.). **1904**—319; **1905**—171, 493; **1907**—51, 69; **1908**—252, 361, 365; **1909**—37, 90, 91, 292, 638; **1910**—321, 351; **1911**—353.

Heat insulation—*see* Coverings and compositions, non-conductors of heat.

Heating air—*see* Air and gases; Furnaces.

Heating (miscellaneous). **1900**—370; **1901**—42, 388; **1903**—127, 517; **1904**—36, 41, 340; **1905**—67, 569, 570; **1906**—448, 544; **1907**—588; **1908**—80, 380; **1909**—306, 444, 560, 579, 594, 614; **1910**—86, 369, 370, 488, 528, 634, 653; **1911**—41, 175, 658.

Hinges. **1903**—506; **1904**—501; **1905**—270; **1906**—127; **1907**—471; **1909**—284; **1910**—639; **1911**—184, 307.

Hockey. **1905**—227, 453, 516.

Hookahs—*see* Pipes, cigars, etc., holders.

Hooks. **1902**—118; **1906**—562; **1910**—514.

Horse and similar clippers. **1900**—402; **1902**—384; **1910**—605.

Horse shoes. **1902**—499; **1903**—50; **1905**—435; **1906**—279; **1907**—316; **1908**—253; **1909**—82, 586.

Hydraulic engineering (*see also* Pumps; Water, etc.)—
  Booms. **1911**—384.
  Buoys. **1902**—457, 521; **1905**—104, 505; **1906**—6, 163, 427; **1907**—313, 468.
  Docks. **1909**—300.
  Dredging. **1900**—20, 57, 188; **1901**—252; **1904**—148; **1905**—47, 166, 167; **1906**—383; **1909**—299, 504; **1910**—528.
  Dykes, banks, etc. **1902**—13; **1907**—174.
  Flumes, channels, etc. **1911**—683.
  Reservoirs. **1905**—470; **1906**—283.
  Sluices and modules. **1901**—102, 245, 325; **1902**—12, 111, 252, 295, 348, 405; **1903**—385, 425; **1904**—72, 106, 425, 533, 539; **1905**—125, 225, 314, 391, 393, 533; **1906**—239, 294; **1907**—147, 174, 223, 558; **1908**—249; **1909**—165, 301, 339, 468, 476, 556, 607, 617, 679; **1910**—51, 521; **1911**—408, 663, 664, 697, 698.

Hydraulic lifts—*see* Lifting and loading.

Hydraulic motors. **1900**—112; **1908**—529; **1910**—277, 396.

Hydraulic rams—*see* Water lifts.

Hydrogen. **1900**—419; **1905**—180, 181; **1910**—305, 306, 393; **1911**—376, 377.

Ice—*see* Cooling and ice-making.

I

India-rubber and substitutes. **1902**—22; **1903**—502, 519; **1904**—163; **1905**—366, 368, 575, 576, 578; **1906**—165, 171, 193, 287, 288, 572, 573, 592; **1907**—193, 290; **1908**—135, 337, 449; **1909**—32, 59, 125, 159, 294, 545, 615, 695; **1910**—44, 227, 234, 269, 307, 347, 448, 569, 570; **1911**—10, 25, 47, 103, 149, 176, 206, 209, 222, 285, 250, 277, 390, 435, 465, 480, 691, 695, 706, 799, 806, 807.

Indicating, registering and recording—

Anemometers. **1901**—140; **1903**—67.

Card games. **1901**—113, 163; **1904**—447; **1906**—60; **1908**—381; **1910**—417.

Cash. **1900**—213; **1901**—137; **1904**—344; **1907**—38, 327; **1908**—495; **1910** 400.

Destination. **1911**—742.

Distance and course. **1902**—307, 447; **1905**—74; **1909**—311.

Gauges. **1901**—201, 452; **1902**—175, 259, 409; **1905**—76, 459; **1909**—388.

Labels and tickets. **1905**—44, 45; **1910**—714.

Levels. **1910**—327.

Lines of manuscript. **1910**—439.

Liquid meter. **1901**—201, 216; **1902**—18, 189; **1906**—349; **1907**—148, 161, 431.

Measures of quantity. **1900**—324, 345; **1906**—120, 121, 217; **1908**—69, 366; **1909**—525.

Measuring length. **1906**—408; **1907**—136, 343; **1909**—97, 264; **1910**—243; **1911**—499.

Number. **1900**—421, 422; **1901**—137; **1905**—436, 487, 513; **1906**—68, 120, 121; **1907**—412; **1908**—495; **1909**—616; **1910**—400, 414, 417; **1911**—141, 558.

Planimeters. **1902**—461.

Railway signals. **1900**—138; **1902**—30, 135; **1904**—257; **1907**—301; **1908**—9, 256; **1910**—376, 399.

Rain gauges. **1908**—509.

Route. **1911**—252.

Slide rules. **1909**—302; **1911**—406, 407.

Speed. **1904**—478; **1905**—217; **1907**—49, 66, 310; **1909**—311; **1911**—713.

Strains and stresses. **1905**—157.

Targets. **1902**—67; **1903**—151, 180; **1904**—352, 479; **1905**—367; **1906**—167; **1907**—54.

Timetables. **1910—233.**

Votes. **1906**—65.

Weight (*see also* Weighing). **1906**—221; **1909**—616.

Indigo. **1900**—96, 169, 209, 256, 297, 302, 339; **1901**—128, 232, 239, 266, 373, 380, 382, 393, 418, 419, 486; **1902**—173, 229, 248, 304, 356, 428, 458; **1903**—92, 305; **1904**—527; **1906**—177, 292, 364; **1907**—522; **1909**—33; **1910**—486; **1911**—112.

Injectors and ejectors. **1900**—136; **1901**—375; **1904**—394; **1905**—320, 579; **1906**—168; **1907**—141; **1908**—128, 166; **1909**—1, 233, 437, 537; **1910**—57, 230; **1911**—22, 37, 369, 561.

Ink. **1900**—478; **1904**—195; **1905**—416; **1909**—317; **1911**—152, 504.

Internal combustion engines—*see* Gas and oil engines.

Iodine. **1904**—514.

Iron and steel manufacture. 1900—63, 167, 168, 487; **1901**—335; **1902**—312; **1903**—494, 495; **1904**—18, 334; **1905**—584; **1906**—370, 568, 581; **1907**—47, 233, 531; **1908**—177; **1909**—120, 121, 151, 152, 153, 232, 338, 341, 658, 686; **1910**—98, 162, 290, 435; **1911**—53, 57, 239.

Ivory. 1904—229.

J

Jaggery—*see* Sugar.

Jewellery 1903—404; **1909**—224, 491; **1910**—593; **1911**—247.

Jugs. 1910—157.

Jute—*see* Packing; spinning.

Jute reaping. 1905—454.

K

Kaleidoscopes. 1906—459.

Kilns—*see* Furnaces and kilns.

Knitting and knitted fabrics. 1906—175; **1911**—137, 469.

Knives. 1902—50, 58; **1911**—365.

Knot tying appliances. 1901—218; **1903**—351; **1908**—441; **1909**—610; **1911**—108.

L

Labels and tickets. 1900—222, 459; **1901**—489; **1902**—162, 315, 421; **1903**—113, 177, 332, 474; **1904**—184, 290, 357, 528; **1905**—44, 45, 85, 183, 223, 318, 461, 487, 519; **1906**—203, 339; **1907**—61; **1908**—39, 338, 415, 502; **1909**—198, 361, 394, 534, 674; **1910**—175, 269, 414; **1911**—68, 99, 100, 141, 171, 270, 583, 722.

Lac and substitutes. 1904—154; **1908**—457, 521; **1909**—194, 203, 411; **1910**—214, 472, 543, 545, 638; **1911**—46, 279, 692.

Ladders. 1908—461; **1911**—184.

Lamps and stoves—(*see also* Furnaces)—

Acetylene. **1900**—170; **1901**—8, 40, 104, 121; **1903**—282; **1905**—84; **1906**—16, 410; **1908**—458.

Candle. **1900**—170; **1908**—47; **1910**—498.

Chimneys and shades. **1902**—495; **1903**—326; **1904**—216, 350, 440; **1905**—13, 322, 323, 424; **1906**—438, 497; **1907**—51; **1908**—19; **1909**—377, 387.

Electric (*see also* Electricity.) **1900**—97, 252, 261, 263, 289, 291, 475; **1901**—123, 290; **1902**—6, 84, 85, 110, 183, 322, 326; **1903**—91, 93, 115, 116, 250, 527; **1904**—113, 350, 405; **1905**—38; **1906**—154, 159, 160, 161, 162, 201, 255, 319, 479; **1907**—127, 391, 400, 401, 430, 527; **1908**—110, 120, 226, 280, 309, 335, 336, 504; **1909**—259, 596; **1910**—421, 559, 566.

Gas. **1900**—157, 486; **1901**—7, 389; **1902**—76, 119, 158, 263, 276, 344, 389; **1903**—286, 317, 533; **1904**—11, 397, 499; **1905**—198, 240, 284, 301, 350, 370, 424, 567, 501; **1906**—514; **1907**—156, 246, 285, 320, 527; **1908**—112, 226, 252, 281, 361; **1909**—10, 418, 511; **1910**—36, 163, 315, 405, 423; **1911**—51, 723.

Lanterns. **1900**—156; **1902**—141; **1904**—216, 440; **1905**—59, 464; **1906**—539; **1907**—101, 473.

Lamps and stoves—*contd.*

Oil. **1900**—156, 170, 215; **1901**—58, 199, 246; **1902**—74, 108, 121, 141, 495, 510; **1903**—29, 46, 208, 359, 374, 471; **1904**—111, 339, 412, 440, 445, 504; **1905**—198, 285, 300, 328, 340, 342, 345, 397, 501, 504, 517, 526, 568; **1906**—10, 32, 33, 108, 155, 156, 449, 520, 539, 565, 596; **1907**—98, 99, 101, 127, 139, 168, 285, 370, 473; **1908**—287; **1909**—182, 464; **1910**—21, 240, 346; **1911**—74.

Oil vapour. **1900**—157, 246, 288; **1901**—187, 413; **1902**—21, 108, 109, 119, 158, 187, 188, 263, 276, 323; **1903**—1, 13, 71, 208, 244, 317, 334; **1904**—11, 22, 28, 213; **1906**—276, 342, 401, 406, 475, 514; **1907**—39, 48, 95, 285, 518; **1908**—14, 133, 369, 463; **1909**—591, 613, 688; **1910**—322, 349; **1911**—81, 120, 258, 259, 308, 346, 554.

Reflectors. **1911**—460.

Signalling. **1900**—3, 81; **1901**—8; **1905**—198; **1906**—520; **1907**—98, 99, 100, 101, 127, 128, 157, 158; **1909**—54, 387; **1911**—59, 416.

Stoves. **1902**—100, 187, 323; **1903**—29, 221, 317, 345; **1904**—340; **1905**—569, 570; **1906**—153, 155, 156; **1907**—48, 51, 168; **1911**—553.

Wax vapour. **1910**—268.

Wicks. **1902**—74; **1904**—339.

Latrines and water-closets (*see also* Sewage). **1900**—95, 158, 287, 324; **1902**—1, 160, 303; **1903**—81, 260, 296; **1904**—53, 99, 309, 345, 369, 450, 545; **1905**—1, 174, 321, 385, 402, 410, 436, 513; **1906**—68, 289, 344, 382, 394, 579; **1907**—330; **1908**—95, 99, 114, 319; **1909**—89, 263, 355, 483, 529, 530, 632, 684; **1910**—19, 60, 161, 285, 326, 415, 450, 666; **1911**—95, 96, 291, 313, 350, 468, 495, 741, 781.

Lawn-mowers. **1907**—**86.**

Lead and compounds. **1900**—233; **1901**—72; **1902**—191; **1903**—312, 346; **1904**—264, 453; **1906**—200, 583; **1909**—141.

Leaf turners. **1907**—490.

Leather. **1900**—2, 265, 400, 483; **1901**—217, 468; **1903**—382, 410; **1904**—311; **1905**—418, 421; **1906**—537; **1907**—486; **1908**—337; **1909**—231, 545; **1910**—44, 125, 280; **1911**—505, 506.

Leggings and gaiters. **1900**—117, 131, 132, 441; **1901**—56, 69, 248, 277, 288, 471; **1903**—172, 424; **1904**—128; **1906**—94, 321; **1910**—69, 255.

Letter clips—*see* Filing papers.

Life saving appliances. **1900**—36, 93, 435; **1902**—113, 216; **1904**—137; **1905**—115.

Lifting and loading. **1900**—38, 103, 272, 393, 458, 474; **1901**—13, 83, 303, 312, 352, 402; **1902**—77, 138, 146, 156, 179, 233, 244, 247, 283, 316, 350, 462, 464, 465; **1903**—74, 224, 269, 363, 368, 413, 414, 440, 514, 520; **1904**—153, 176, 459, 530; **1905**—2, 31, 42, 100, 112, 225, 299, 419, 538; **1906**—21, 46, 334, 383, 574; **1907**—15, 67, 106, 163, 238, 239, 292, 580, 581; **1908**—196; **1909**—2, 5, 102, 226, 289, 421, 458, 479, 550, 583, 691; **1910**—6, 522, 585, 595; **1911**—34, 161, 316, 325, 778.

Lifts, safety devices for. **1910**—365.

Lifts for water—*see* Water lifts.

Lithography—*see* Printing.

Locking nuts—*see* Bolts, nuts, studs and washers.

Locks and fastenings. **1900**—35, 82, 90, 144, 174, 186, 214, 222, 257, 262, 284, 317, 344, 436, 456; **1901**—49, 67, 71, 81, 127, 149, 188, 189, 198, 237, 251, 256, 268, 296, 329, 412; **1902**—95, 130, 131, 166, 171, 218, 222, 237, 246, 287, 292, 308, 329, 399, 401, 402, 519; **1903**—12, 24, 63, 155, 179, 197, 292, 303, 327, 357, 380, 421, 423, 437; **1904**—56, 87, 150, 152, 171, 180, 253, 378, 398, 528; **1905**—58, 68, 88, 113, 152, 213, 245, 255, 270, 312, 411, 412, 419, 446, 459, 469, 527, 550; **1906**—31, 61, 75, 282, 355, 365, 376, 436, 565, 577; **1907**—36, 263, 302, 309, 325, 434, 464, 513, 516, 571, 591; **1908**—175, 176, 212, 244, 255, 290, 296, 322, 332, 345, 363, 368, 394, 412, 415, 443, 473, 499, 523; **1909**—16, 71, 107, 222, 230, 252, 358, 364, 394, 398, 432, 499, 528, 534, 554, 555, 619; **1910**—155, 174, 194, 199, 216, 263, 361, 428, 452, 464, 587, 600, 665; **1911**—19, 68, 114, 225, 255, 270, 288, 337, 341, 502, 507, 630, 681.

Locomotives and traction engines (*see also* Furnaces; **Motor cars**). **[illegible]**—106, 128, 177; **1901**—78, 108, 423, 464; **1902**—128, 182, 214, 278, 351, 359, 424, 496; **1903**—181, 205, 283, 427, 442, 443, 499; **1904**—109, 110, 268, 315, 329, 331, 361, 364, 466, 537; **1905**—165, 202, 476, 511; **1906**—13, 43, 54, 90, 268, 324, 412, 467, 503, 508, 527, 545, 605; **1907**—56, 117, 165, 171, 177, 210, 292, 567; **1908**—328, 479; **1909**—26, 146, 311, 323, 342, 427, 428, 441, 465, 546, 571, 687; **1910**—45, 90, 93, 134, 202, 381, 390; **1911**—135, 406, 407, 476, 481, 487, 551, 731.

Looms—*see* Weaving.

Lubricating (*see also* Bearings). **1900**—85, 314, 395; **1901**—14, 46, 208, 219, 428, 451, 452; **1902**—2, 9, 62, 328, 378, 407, 494; **1903**—55, 104, 110, 522; **1904**—91, 321, 432, 466, 498, 518, 549; **1905**—188, 203, 506, 535; **1906**—7, 48, 105, 145, 398, 425, 431, 467, 490, 605; **1907**—153, 417, 482, 485; **1908**—70, 98, 187, 276; **1909**—78, 337, 336, 367, 481, 514, 541, 643, 681, 682; **1910**—338, 395, 520; **1911**—52, 162, 178, 197, 223, 302, 529, 727, 777.

M

Magnetic and electrostatic separators. **1904**—461; **1905**—35; **1906**—123; **1907**—220, 479; **1909**—322; **1910**—162, 458; **1911**—423.

Magnesium and Compounds. **1902**—65; **1903**—228; **1906**—150; **1910**—258, 382.

Manganese and Compounds. **1909**—593; **1910**—162.

Martingales—*see* Harness and saddlery.

Manures. **1901**—17, 421; **1902**—290; **1904**—30, 130; **1907**—566; **1908**—173, 265; **1909**—**142**; **1911**—200, 733.

Matches and match boxes. **1902**—492; **1904**—207, 547; **1905**—163; **1906**—39, 187, 209, 226, 323; **1907**—29, 319, 455, 561; **1909**—18; **1911**—74, 513, 636.

Measuring—*see* Indicating and recording; Valves and cocks.

Meat—*see* Food.

Mechanism (miscellaneous)—

Cam and eccentric gearing. **1906**—434; **1910**—357.

Belt and rope gearing. **1900**—109, 144, 395; **1902**—38, 202, 404, 488; **1903**—53, 386; **1904**—15, 482, 483, 519; **1905**—159, 522; **1906**—38, 243, 607; **1907**—46, 170, 184, 280, 442, 576; **1908**—35, 71, 393, 454; **1909**—682; **1911**—194, 303, 418, 435.

Chain gearing. **1903**—52, 53, 192; **1906**—502.

Clutches. **1900**—151, 197, 234; **1902**—207, 500; **1903**—409; **1905**—178, 344, 422, 459; **1906**—164, 224, 225, 252, 271, 454; **1907**—9, 456, 489, 499, 576; **1908**—35; **1910**—63; **1911**—173, 481.

Crank. **1904**—48.

Converting reciprocating and rotary motion. **1900**—197; **1901**—65, 396; **1903**—10; **1905**—106, 107, 108, 109; **1906**—114, 347; **1908**—24, 525; **1910**—619; **1911**—34, 368.

Friction gear. **1901**—145; **1903**—39, 167, 168; **1904**—225; **1909**—349.

Gyrostats. **1905**—78.

Pulleys. **1902**—205, 391; **1903**—110; **1904**—194; **1905**—485; **1906**—243, 308, 607; **1908**—113; **1909**—114; **1910**—373, 427; **1911**—70.

Spindles and Shafts. **1906**—502; **1908**—70; **1910**—204, 816; **1911**—751, 754.

Springs. **1903**—57, 94; **1905**—105; **1906**—263, 278, 378; **1907**—426; **1908**—115, 392, 496; **1909**—391; **1910**—434; **1911**—48, 711.

Spur and bevel gearing. **1901**—76, 77; **1902**—500, 508; **1903**—409, 514, 520; **1904**—321; **1905**—62; **1906**—368; **1908**—115, 434; **1909**—[illegible]; **1910**—104, 107, 354, 375; **1911**—684.

Variable speed gear, electric. **1910**—380.

Worm gearing. **1903**—56; **1907**—433; **1908**—411; **1910**—626.

Medicine and Surgery. **1900**—1, 42, 73, 392, 491, 492; **1901**—170, 194, 195, 400; **1902**—37, 305; **1903**—156, 165; **1904**—161, 227, 550; **1905**—124, 246, 442, 523; **1906**—45, 67, 208, 219, 297, 316, 350, 525; **1907**—140, 198, 275, 507, 530, 549; **1908**—73, 236, 285, 331, 418, 494, 530; **1909**—150, 274, 430; **1910**—614, 650; **1911**—491, 508, 524, 615.

Megaphones. **1908**—541; **1909**—312.

Mercerising—*see* Dyeing, mordanting, etc.

Metal working. **1900**—5, 68, 89, 164, 167, 168, 184, 194, 239, 250, 251, 487; **1901**—13, 39, 467; **1902**—330, 362, 513, **1903**—39, 54, 79, 107, 185, 254, 280, 281, 291, 310, 342, 498, 531; **1904**—1, 2, 92, 164, 165, 327, 503, 508; **1905**—29, 56, 140, 207, 236, 276, 287, 288, 356, 357, 382, 433. 455, 473, 488, 508, 529, 559; **1906**—12, 46, 64, 159, 160, 161, 162, 182, 286, 298, 346, 397, 472, 473, 538, 547, 557, 617; **1907**—27, 92, 167, 264, 397, 404; **1908**—4, 45, 101, 132, 253, 299, 308, 351, 375, 438; **1909**—9, 61, 139, 192, 201, 210, 234, 359, 378, 478, 489, 587, 622, 676; **1910**—18, 35, 38, 54, 88, 109, 110, 132, 186, 218, 367, 368, 375, 397, 421, 589; **1911**—16, 23, 33, 49, 134, 135, 154, 334, 393, 410, 452, 514, 573, 674, 675, 774.

Metallurgy—*see* various metals; Ores treating.

Methane. **1910**—393.

Mica. **1901**—180, 238, 279, 301; **1902**—337, 338; **1904**—25, 289, 377, 402; **1905**—13, 126, 243, 291, 322, 323, 415; **1906**—169, 438; **1909**—391; **1910**—289.

Microphones—*see* telegraphs and telephones.

Microscopes. **1905**—582.

Milk. **1901**—12, **1902**—484; **1903**—223; **1904**—14, 240, 259; **1905**—296, 523; **1906**—511; **1907**—45, 214, 215, 216, 437; **1908**—21, 221; **1909**—290, 297, 513, 579, 685; **1911**—55, 420, 597, 598.

Milk jugs. **1910**—419.

Mills—*see* Grinding.

Mining and quarrying. (*see also* Deep-boring; Rock drills). **1900**—143, **1901**—265; **1903**—148, 224, 478; **1904**—365; **1905**—234, 254, 311, 567; **1906**—574; **1908**—98; **1909**—550, 616; **1910**—365; **1911**—89, 281, 347.

Mixing and agitating. **1900**—274, 347; **1901**—417, 494; **1902**—180, 181, 474; **1903**—25, 97, 150, 188, 288, 472; **1904**—70, 155, 215, 240, 280, 453, 493; **1905**—94, 95, 98, 180, 181, 204, 222, 280, 311, 368, 379, 401; **1906**—56, 140, 184, 257, 460; **1907**—255, 509; **1908**—134, 242, 265, 293; **1909**—245, 560; **1910**—42, 573; **1911**—84, 736.

Modules—*see* Hydraulic engineering.

Mordanting—*see* Dyeing.

Molybdenum and compounds. **1908**—280, 504.

Motor cars (*see also* Gas and oil engines; Wheels and tyres for vehicles). **1900**—142, 151, 249, 409; **1901**—76, 77, 115; **1902**—14, 211, 301, 500; **1903**—42, 52, 53, 61, 167, 168, 192, 216, 409, 520; **1904**—225, 245; **1905**—78, 105, 108, 109, 178, 218, 422, 459, 543; **1906**—185, 224, 225, 277, 310, 368, 424, 442, 454, 545, 546; **1907**—21, 33, 49, 53, 210, 342, 499; **1908**—78, 115, 158, 228, 269, 348, 357, 368, 434, 492, 538; **1909**—44, 52, 99, 330, 349, 391, 557, 623; **1910**—8, 190, 204, 327, 354, 366; **1911**—73, 97, 172, 381, 562, 684, 711.

Moulding plastic materials. **1900**—60, 75, 87, 241; **1901**—125, 143, 313; **1902**—181, 506; **1903**—235, 236, 278; **1904**—49; **1906**—325, 380; **1907**—27; **1908**—195, 307; **1909**—132, 304, 424; **1910**—76, 378; **1911**—306, 739, 797, 798.

Muffles—*see* Furnaces and kilns.

Music. **1900**—16, 196; **1901**—211, 332, 458; **1903**—506; **1904**—27, 551; **1905**—563; **1906**—208, 214, 261, 262, 457, 594; **1907**—42, 279, 297, 490; **1908**—315, 386, 489, 496; **1909**—575; **1910**—16, 22, 153; **1911**—85.

Mussaks—*see* Water tanks.

N

Night lights—*see* Candles.

Nails, spikes and tacks. **1901**—254, 340, 368; **1903**—432; **1904**—118; **1907**—133; **1908**—466; **1910**—512; **1911**—309.

Nickel and compounds. **1906**—200; **1910**—393.

Nitrogen and compounds. **1902**—196, 219; **1903**—158; **1904**—26, 298; **1907**—272, 273, 572; **1908**—77, 173; **1910**—28, 64, 65, 66, 164, 334, 340, 348; **1911**—477, 478.

Nuts—*see* Bolts, nuts, studs and washers.

O

Oil burners—*see* Furnaces; Lamps.

Oil engines—*see* Gas and oil engines.

Oil gas—*see* Gas manufacture.

Oil mills—*see* Grinding and crushing.

Oils (*see also* Distilling). **1900**—10, 406; **1901**—17, 42, 190, 212, 342, 356, 404; **1902**—72, 73, 151, 152, 431, 454, 491; **1903**—367; **1904**—130, 224; **1905**—373 567, 577; **1906**—7, 554; **1907**—153, 228, 334, 467, 495, 511, 566; **1908**—203, 384, 520, 539; **1909**—202, 389, 406; **1910**—145, 244, 287, 395, 575; **1911**—106, 109, 144, 253, 356, 412, 413, 510, 621, 639, 640.

Ordnance—*see* Arms and ammunition.

Ores, treating (*see also under* Various metals; Magnetic separators). **1900**—67; **1901**—64, 72, 135, 177, 186, 285, 415, 416, 480; **1902**—92; **1903**—200, 253, 337, 501; **1904**—23, 24, 76, 103, 264, 334, 360, 434, 435, 436, 544; **1905**—26, 94, 95, 119, 120, 129, 176, 279, 280, 311, 360, 439, 548; **1906**—140, 241, 257, 345, 478, 516; **1907**—388; **1908**—141, 317, 364, 378, 383, 424, 475, 512; **1909**—86, 109, 135, 197, 245, 309, 321, 322, 371, 445, 500, 561, 562; **1910**—26, 72, 124, 178, 213, 286, 293, 299, 319, 458, 469, 573, 579, 625, 644, 656; **1911**—66, 178, 182, 273, 274, 285, 318, 351, 370, 371, 391, 520, 580.

Orrery. **1904**—159.

Oxygen. **1902**—102, 219; **1906**—563.

Ozone. **1903**—515; **1904**—296, 298; **1905**—428; **1906**—391, 462; **1908**—16, 43; **1909**—85, 176.

P

Packing and baling—

Bottles. **1900**—348; **1905**—4.

Cigars and cigarettes. **1904**—488; **1906**—187.

Bale hoops, ties and fastenings. **1909**—463.

Cotton, jute, etc., in bales. **1900**—90, 144, 186, 461, 462; **1901**—75, 119, 176, 304, 305, 315, 444, 492; **1902**—95, 174, 476; **1903**—303, 507, 532; **1904**—88, 258, 272, 277, 535; **1905**—43, 75, 456; **1906**—379, 404, 412, 483, 556, 613, 618; **1907**—249, 334, 419, 444, 448, 587; **1908**—2, 179, 286, 402, 416, 476, 487; **1909**—154, 158, 208, 273, 452; **1910**—497, 577, 596, 622; **1911**—322, 574.

Eggs. **1905**—14.

Explosives. **1910**—395.

Hay, straw, etc. **1901**—52; **1902**—79, 404; **1905**—241; **1906**—556; **1907**—249; **1910**—140.

Packing and baling—*contd.*

Hides. **1901**—75; **1903**—410; **1905**—43; **1907**—249; **1911**—574.

Matches. **1906**—323.

Medicine. **1906**—45.

Ores. **1908**—2.

Plates and discs. **1904**—510.

Tea, coffee and granular materials. **1900**—30, 330; **1901**—179, 213, 299, 345; **1903**—322, 330; **1904**—438, 487; **1905**—32, 290; **1906**—529; **1907**—438; **1908**—402; **1909**—269.

Wool. **1908**—2.

Packing for axle boxes—*see* Bearings.

Packing for stuffing boxes. **1906**—188; **1908**—343, 488; **1909**—2, 31; **1911**—5, 47, 286.

Paddy—*see* Grain.

Pails and buckets. **1905**—341, 570; **1906**—230; **1907**—355; **1910**—326; **1911**—405, 421.

Paints and painting (*see also* cleaning, etc.). **1900**—10; **1901**—200; **1902**—94, 191, 271; **1903**—41, 82, 312, 313, 346; **1904**—154, 453, 471; **1905**—463, 557; **1906**—531; **1907**—511, 529; **1909**—484, 545; **1910**—172, 460, 603; **1911**—362, 396, 483, 500, 640, 667, 692.

Pakhals—*see* Water tanks.

Pantographs. **1901**—94; **1906**—280.

Paraffin wax. **1906**—400; **1908**—80; **1909**—202, 373; **1910**—70, 555, 583, 601.

Paper bags and boxes—*see* Boxes, bags and cases.

Paper and cardboard manufacture. **1900**—350, 353, 416, 440; **1901**—17, 202, 274, 403; **1902**—40, 422; **1904**—193, 519; **1906**—2, 420, **1907**—31, 214, 215, 216, 222, 317, 396, 428; **1908**—15, 191, 261, 389, 435, 436; **1909**—136, 290, 297, 305, 410, 677, 685, 693; **1910**—10, 14, 135; **1911**—113, 122, 244, 312, 414, 445, 581, 582, 599.

Paving. **1900**—175, 229; **1904**—199, 333; **1906**—91, **1907**—322; **1908**—377; **1910**—59.

Pearls. **1904**—4; **1906**—240, 580: **1908**—105; **1909**—335, 523; **1910**—524; **1911**—567.

Peat. **1904**—241, 406, 493.

Pencils. **1902**—342; **1903**—114; **1904**—154, 200; **1906**—30; **1909**—261; **1910**—100.

Pens. **1900**—187, 342; **1902**—342, 498; **1903**—114; **1904**—200; **1907**—394, 585; **1908**—327; **1909**—11, 279.

Persian wheels—*see* Water lifts.

Perfumery. **1900**—248; **1903**—328; **1909**—136, 287.

Petroleum—*see* Oils; Cans.

Perpetual motion. **1900**—300, 333; **1902**—297; **1906**—378, 518; **1907**—104, 235; **1908**—125, 217, 303, 372; **1909**—40, 169, 173, 268; **1910**—97, 562; **1911**—85, 382.

Phonographs. **1902**—46; **1903**—511; **1905**—28; **1906**—174, 189, 534, 598; **1907**—491, 517; **1908**—26, 33, 100, 326; **1909**—15, 65, 186, 391, 431; **1910**—22, 71, 445, 493, 500, 533, 534, 535, 536, 540, 571, 572; **1911**—62, 132, 173, 724, 767, 768, 769, 770, 773, 784, 785, 786, 787, 788, 789, 790, 791.

Phosphorus and compounds. **1904**—241; **1910**—165, 367, 368.

Photography. **1900**—130, 154, 218, 278, 455; **1901**—293, 469; **1902**—133, 142; **1903**—187, 258, 307; **1904**—490, 552; **1905**—377; **1906**—180, 240; **1908**—426, 526; **1909**—343, 368, 547; **1910**—73, 74, 416; 1911—62, 355.

Photolithography—*see* Printing.

Piles and piling. **1901**—309, 447; **1903**—39, 101, 176, 475; **1905**—22, 164, 297; **1906**—9; **1907**—451, 480; **1910**—522; **1911**—444, 540, 655, 718.

Pins, dress and safety. **1900**—59; **1902**—129; **1903**—261; **1905**—303, 562; **1909**—606; **1911**—254.

Pipes and tubes. **1900**—60, 80, 94, 159, 184, 241, 250, 251, 275; **1901**—4, 449, 467; **1902**—106, 327, 392, 513; **1903**—103, 144, 235, 280, 281, 291, 310, 420, 451, 481; **1904**—1, 2, 17, 102, 164, 183, 373, 468, 503, 508; **1905**—282, 382, 473; **1906**—35, 193, 236, 309, 325, 413, 521, 571; **1907**—27, 43, 284, 354, 554, 570; **1908**—4, 195; **1909**—103, 132, 188, 189, 448, 676, 677, 698; **1910**—14, 35, 54, 76, 221, 424, 554, 608, 629; **1911**—11, 12, 49, 198, 437, 456, 709, 739, 798.

Pipe and tube cleaners. **1904**—64; **1910**—151, 418, 436, 580.

Pipes, cigar and cigarette holders. **1900**—80, 298; **1901**—406; **1902**—364; **1906**—96; **1907**—43, 354; **1910**—48.

Planes. **1903**—86.

Planimeters—*see* Indicating, etc.

Plants, treatment—*see* Agriculture.

Plating—*see* Electrolysis; Tinning, etc.

Ploughs—*see* Agriculture.

Plumbago—*see* Graphite.

Pneumatic hand tools. **1900**—25; **1901**—134; **1903**—358; **1904**—63; **1905**—158, 339; **1908**—138, 139; **1909**—690.

Polo—*see* Games and toys.

Portfolios—*see* Books.

Portland cements—*see* Cement and concrete.

Post cards. **1905**—477.

Postmarking—*see* Labels and tickets.

Potassium and compounds. **1905**—180, 181, 266.

Pottery. **1906**—392.

Presses for baling—*see* Packing and baling.

Presses for filtering—*see* Filtering.

Printing. **1900**—43, 44, 45, 46, 47, 48, 49, 64, 110, 116, 218, 260, 292, 293, 294, 295, 361, 362, 363, 364, 365, 366, 478; **1901**—28, 93, 94, 118, 154, 155, 156, 157, 158, 159, 160, 161, 224, 225, 226, 484; **1902**—133, 239, 240, 331, 358; **1903**—210, 251, 307, 418, 529; **1904**—100, 290, 357, 487, 488, 552; **1905**—44, 73, 212, 333, 503, 508; **1906**—24, 180, 286, 346, 423, 428, 429, 589, 590; **1907**—75, 181, 182, 311, 349, 350, 506, 552, 558; **1908**—39, 54, 55, 56, 140, 145, 168, 169, 170, 171, 198, 225, 261, 298, 341, 342, 358, 428, 465, 482, 505; **1909**—42, 95, 130, 183, 196, 225, 258, 317, 318, 319, 443, 467; **1910**—3, 147, 175, 416, 635; **1911**—8, 61, 99, 100, 152, 211, 375, 530, 672, 673, 688, 694.

Proteids. **1905**—15, 19.

Proteins. **1910**—222.

Pulleys—*see* Mechanism.

Pumps (*see also* Centrifugal fans and pumps; Rotary engises; Water lifts). **1900**—243, 272; **1901**—14, 22, 37, 201, 374, 399, 476; **1902**—466; **1903**—289, 370; **1904**—452, 536; **1905**—166, 244, 268, 295; **1906**—34, 121, 164, 258, 532, 591; **1907**—85, 123, 152, 188, 357, 421, 436, 523, 526; **1908**—97, 272, 273, 274, 367; **1909**—337, 566, 367, 526, 582, 611; **1910**—247, 277, 496, 522, 617; **1911**—76, 160, 167, 246, 299, 394, 403, 434, 517, 568, 609, 628, 631, 634, 714, 720, 727, 740, 777, 778.

Punkhas, swinging (*see also* Centrifugal fans and pumps). **1900**—4, 112, 113, 197, 226, 234, 266, 267, 281, 356, 368, 418, 481; **1901**—65, 70, 91, 92, 117, 126, 150, 183, 259, 278, 361, 390, 459; **1902**—164, 165, 178, 293, 319, 378, 450, 459, 508, 509, 516; **1903**—4, 10, 62, 110, 325, 326, 362, 530; **1904**—85, 236, 351, 389; **1905**—38, 260, 498; **1906**—151, 347, 506; **1907**—172, 411, 432, 441; **1908**—197, 217, 459; **1909**—345, 365; **1910**—192, 236, 312, 351, 619; **1911**—256, 305, 687.

Purses. **1905**—556.

Putties—*see* Leggings and gaiters.

Q

Quartz working. **1910**—429.

R

Racks—*see* Furniture.

Race starting machines. **1901**—383; **1903**—283; **1909**—347.

Radium and compounds. **1911**—178.

Railways and tramways (except signals and vehicles)—

Chairs and chair keys. **1900**—340, 371, 460, 484; **1901**—387, 463; **1902**—416; **1903**—163, 206, 432; **1904**—342, 384; **1905**—53; **1906**—223, 326, 388; **1907**—105, 134, 135, 410, 443, 590; **1908**—127, 137, 213, 332, 376; **1909**—474; **1910**—53, 406; **1911**—327.

Crossings. **1902**—224; **1903**—28; **1904**—37, 316, 424; **1910**—267.

Crossing gates. **1903**—143; **1904**—9, 226; **1905**—247; **1908**—175; **1909**—267; **1911**—472.

Couplings **1908**—300.

Electric (*see also* Electricity). **1900**—91, 286, 390, 37; **1901**—205, 321, 337; **1902**—223, 224, 238, 398, 421, 453, 477; **1903**—23, 120, 121, 142, 399; **1904**—84, 420, 491; **1905**—33, 34, 4, 201; **1906**—191, 464; **1907**—360, 361, 493, 547; **1908**—187, 347; **1909**—6, 143; **1910**—342; **1911**—111.

Mail transfer apparatus. **1908**—325; **1910**—272.

Monorail. **1901**—464; **1904**—273, 329; **1908**—6, 437, 469; **1910**—111, 112, 113, 114; **1911**—404.

Points and switches. **1900**—145, 200, 245; **1901**—80, 101, 210, 275, 324, 438; **1902**—16, 48, 155, 218, 238, 246, 285, 370, 520; **1903**—9, 23, 28, 88, 163, 292, 347, 426; **1904**—104, 124, 180, 182, 226, 270, 316, 386, 424, 430, 502; **1905**—113, 142, 213, 247, 332, 358, 441; **1906**—36, 59, 75, 166, 253, 305, 384, 395, 451, 577, 609, 610; **1907**—129, 164, 453, 463, 520, 537, 538, 539, 551, 598, 600, 611; **1908**—59, 275, 294, 322, 332, 347, 394; **1909**—131, 222, 295, 396, 414, 488, 517, 573, 574, 648, 650, 675; **1910**—270, 304, 412, 442, 587; **1911**—129, 215, 426, 544, 616, 637, 643.

Rails and joints. **1900**—40, 133, 235, 460; **1901**—35, 148, 222, 463, 472; **1902**—11, 264, 330, 409; **1903**—13, 290, 335, 342, 399; **1904**—33, 329, 370, 408; **1905**—190, 292; **1906**—64, 210, 280; **1907**—88, 254, 269; **1908**—190, 196, 339, 347; **1909**—9, 113; **1910**—18, 62, 209, 224, 344, 399, 406, 449, 561, 649; **1911**—16, 334, 793, 796.

Scotch blocks. **1902**—309; **1904**—288.

Signals—*see* Railway and tramway signalling.

Sleepers. **1900**—27, 460, 484; **1901**—463; **1902**—41, 195, 455; **1904**—376; **1905**—53, 237, 297; **1906**—64, 80, 223; **1907**—105, 196, 224, 443, 590; **1908**—245, 376, 466, 483; **1909**—6, 215, 298, 416; **1910**—166, 295, 449, 549, 627; **1911**—317, 452, 475, 482, 793, 796.

Time-table calculator. **1910**—233.

Traversers. **1905**—432.

Vehicles—*see* Railway and tramway vehicles.

Water supply. **1902**—339; **1903**—340.

Wire ropeways. **1900**—57; **1904**—29, 273; **1905**—272, 273; **1906**—435; **1907**—107, 238, 239; **1909**—228; **1910**—427; **1911**—455, 764.

Working over different gauges. **1900**—357; **1903**—152; **1907**—68, 498; **1908**—433.

Railway and tramway vehicles (*see also* Labels, etc.; Wheels and tyres for vehicles)—

Adhesion increasing. **1905**—315.

Alarms and signals—*see* Railway and tramway signalling.

Axle and wheel mountings—*see* Bogies, etc., *below*.

Ballast ploughs. **1906**—358, 359.

Bearings. **1910**—332, 338.

Bodies. **1900**—139, 140, 141, 308, 357; **1901**—223, 229, 281, 385, 424, 466; **1902**—97, 256, 390, 505, 522; **1903**—32, 265; **1904**—129, 17, 407; **1905**—413; **1906**—127, 128, 129, 130, 132, 133, 134, 135, 357, 360; **1907**—108, 155, 234, 268, 528; **1908**—94, 102, 150, 172, 227, 313, 377, 484, 551; **1909**—505; **1910**—119, 529.

Bogies and undercarriages. **1900**—89; **1902**—52, 88, 284, 335, 487, 505, 517; **1903**—32, 152, 394; **1904**—129, 268, 328, 329, 385, 407; **1905**—77, 105, 154, 188, 203, 445, 535, 581; **1906**—128, 129, 134, 492; **1907**—68, 207, 386, 402, 485, 498; **1908**—6, 182, 392, 433; **1909**—77, 332, 438, 588; **1910**—112, 114, 355, 413, 550; **1911**—302.

Brakes. **1900**—120, 194, 488, 489, 490; **1901**—29, 30, 31, 32, 33, 34, 43, 50, 51, 184, 228, 234, 306, 316, 364, 369, 427, 456; **1902**—15, 17, 22, 170, 197, 198, 210, 423, 426, 477, 486; **1903**—49, 98, 456, 464, 500, 516; **1904**—12, 60, 282, 394, 395, 428, 480; **1905**—103, 127, 148, 149, 202, 302, 306, 347, 378, 383, 403; **1906**—53, 79, 112, 133, 170, 216, 315, 405, 411, 439, 443, 552; **1907**—1, 2, 3, 4, 5, 6, 116, 117, 243, 258, 278, 389, 568, 613; **1908**—6, 87, 117, 123, 160, 182, 235, 262, 284, 408, 524, 545; **1909**—1, 64, 103, 108, 140, 190, 229, 277, 278, 374, 429, 437, 493, 494, 537, 549, 553, 582, 602; **1910**—5, 103, 112, 114, 314, 397, 462, 465, 468, 484, 503, 661; **1911**—47, 124, 195, 369, 548, 571, 633, 752, 755.

Buffers. **1900**—271; **1901**—61; **1902**—365; **1903**—57, 94, 178, 209, 295, 446; **1904**—250, 310, 383; **1905**—177, 347, 404; **1906**—131, 393; **1907**—121, 202, 366, 426; **1908**—42, 160, 165, 299, 313, 545; **1909**—438, 576, 694; **1910**—94, 220; **1911**—18, 25, 48, 607, 608.

Change speed and reversing. **1910**—354.

Couplings. **1900**—62, 181, 271, 331, 428; **1901**—61, 63, 86, 228, 237, 287, 326; **1902**—122, 208, 365, 460; **1903**—57, 94, 131, 178, 209, 215, 229, 295, 405, 446; **1904**—10, 179, 250, 310, 383, 426, 451; **1905**—137, 177, 216, 263, 264, 404, 521; **1906**—327, 393, 530, 614, 620; **1907**—121, 202, 288, 335, 346, 371, 380, 390, 426, 452, 514, 528, 556, 582; **1908**—42, 65, 165, 200, 313; **1909**—438, 471, 521, 540, 668, 694; **1910**—94, 99, 119, 122, 136, 141, 160, 537; **1911**—3, 18, 48, 338, 378, 607, 608, 614.

Crane. **1905**—112.

Doors, windows and fastenings. **1900**—82, 139, 141, 174, 222, 284, 344, 408; **1901**—49, 67, 237, 256, 296, 466; **1902**—130, 131, 135, 302, 399, 401, 402; **1903**—24, 63, 179, 218, 357, 437; **1904**—6, 35, 56, 150, 152, 253, 341, 378, 398; **1905**—58, 68, 88, 245, 270, 411, 412, 446, 527, 550; **1906**—61, 127, 133, 355, 357, 360, 376, 523; **1907**—294, 302, 309, 312, 371, 513, 516; **1908**—87, 227, 244, 247, 282, 345, 368, 412, 415, 443, 450, 471, 473; **1909**—252, 284, 394, 534; **1910**—600; **1911**—38, 68, 124, 225, 255, 270, 337, 341, 547, 585, 630, 677.

Footboards and steps. **1907**—548; **1908**—421, 442, 450; **1911**—124, 633.

Inspection trolleys. **1906**—43.

Life Guards or catchers. **1908**—303; **1909**—99.

Lighting (*see also* Electricity). **1900**—327; **1903**—36, 153, 225; **1904**—321, 350, 482, 483; **1905**—38, 192, 414, 424, 466, 509; **1906**—456; **1907**—170, 392; **1909**—475; 1910—389, 432, 433; **1911**—794.

Overhead. **1904**—273; **1910**—342.

Rail cleaner and lubricator. **1903**—55, 119; **1909**—22.

Seats and berths. **1911**—79.

Steering. **1902**—359; **1904**—268; **1907**—386.

Railway and tramway vehicles—*contd.*

Ventilating. **1900**—308; **1901**—129, 230, 430; **1902**—71; **1903**—503; **1904**—482, 483; **1905**—38, 466; **1906**—447; **1907**—294, 559; **1908**—205, 302; **1909**—447, 477; **1910**—538; **1911**—577.

Wheel testing. **1903**—16.

Windows—*see* Doors, windows, etc., above.

Railway and tramway signalling—

Bridge failure. **1902**—425, 456; **1903**—72; **1904**—219.

Brake applying. **1901**—364; **1902**—477; **1904**—219, 480; **1906**—405; **1908**—117; **1909**—64, 190, 429, 553; **1910**—661; **1911**—192, 218.

Electric. **1900**—124, 138, 283, 434; **1901**—101, 275, 292, 314, 324, 398, 422; **1902**—204, 257, 425, 477; **1903**—5, 408, 426; **1904**—182, 209, 226, 269, 270, 313, 318, 409; **1905**—110, 175, 331, 332, 388; **1906**—228, 254, 335, 499, 566, 609, 619; **1907**—114, 225, 251, 252, 253, 301, 351, 453, 463, 520, 537, 540, 551, 569, 593, 603, 608; **1908**—22, 175, 439, 534; **1909**—20, 34, 190, 414, 429, 488, 506, 599, 605, 651, 659, 660, 675; **1910**—5, 47, 265, 358, 376, 399, 525; **1911**—28, 30, 31, 32, 212, 213, 236, 339, 471, 472, 484, 592, 732.

Electric railway. **1902**—477; **1903**—5; **1904**—409.

Hydraulic. **1902**—456; **1904**—386.

Levers and frames. **1905**—213, 441; **1906**—41, 58, 63, 166; **1907**—539.

Mechanical. **1900**—200; **1901**—362, 431; **1902**—16, 218, 285, 370; **1903**—9, 88, 347, 426; **1904**—156, 180, 257, 368, 388; **1905**—213, 247, 332, 441; **1906**—41, 58, 63, 107, 228, 395, 405, 505; **1907**—225, 299, 537, 539, 551, 569, 611; **1908**—149, 275, 294, 333, 474; **1909**—60, 64, 108, 131, 190, 250, 295, 396, 414, 574, 675; **1910**—127, 187, 376, 515; **1911**—186, 213, 419.

Padlock or like. **1902**—218; **1905**—113, 213; **1906**—36, 59; **1908**—294, 322, 394; **1909**—222.

Pneumatic. **1900**—145; **1901**—210, 275, 398; **1903**—408; **1904**—209; **1905**—375.

Rod or wire details. **1902**—155; **1903**—245; **1904**—104, 446; **1906**—41, 58, 63, 384, 496; **1907**—129, 240, 299, 356, 494, 538, 602; **1908**—292, 460, 516; **1909**—61, 83, 646; **1910**—187; **1911**—129, 612.

Signal flags. **1907**—594.

Signal lamps. **1900**—3; **1903**—201; **1904**—504; **1906**—520; **1907**—98, 99, 100, 101, 127, 128, 157, 158; **1909**—46, 649.

Signals on engine or train. **1903**—201; **1904**—388, 480; **1905**—388; **1906**—228, 254, 335, 564, 619; **1907**—114, 251, 252, 253; **1908**—22, 88, 117, 256, 322, 450, 471; **1909**—64, 190; **1910**—5, 661; **1911**—192, 213.

Station indicators. **1902**—30, 135.

Tablet and key. **1900**—138, 283, 434; **1901**—101, 391; **1902**—218, 257; **1903**—9, 347, 426; **1904**—180, 269, 313, 318, 506; **1905**—37, 110, 113, 405; **1906**—36, 59, 72, 75, 108, 119, 147, 166, 234; **1907**—145, 551; **1908**—161, 220, 294, 322, 394, 472, 518, 534; **1909**—20, 420, 674; **1910**—171, 270, 272, 311, 440, 525, 636; **1911**—157, 314, 490, 588, 642.

Ramie—*see* Spinning

Range finders. **1902**—345; **1905**—490; **1906**—281; **1908**—210; **1909**—163, 413.

Rats—*see* Vermin destroying.

Reaping—*see* Cotton; Jute.

Recording—*see* Indicating, etc.

Refrigerating—*see* Cooling and ice-making.

Respiration apparatus. **1908**—154, 155, 156.

Rice—*see* Grain.

Rickshaws—*see* Road vehicles.

Rifles—*see* Arms and ammunition.

Rivets. **1906**—195, 197.

Road vehicles (*see also* Bicycles; Motor cars; Wheels and tyres for vehicles). **1900**—17, 106, 151, 219, 236, 355, 408; **1901**—115, 147, 191, 192, 281, 312, 367, 396, 445; **1902**—14, 70, 172, 296, 371, 376, 433, 471, 517; **1903**—37, 100, 240, 320, 364, 394; **1904**—54, 75, 129, 132, 275, 292, 312, 367, 441, 448, 523; **1905**—36, 105, 143, 229, 249, 269, 341, 476, 489, 500, 560; **1906**—82, 99, 109, 194, 272, 277, 295, 390, 458, 535; **1907**—7, 23, 33, 53, 73, 117, 355, 386, 408, 474, 503; **1908**—52, 94, 134, 150, 159, 348, 357, 469; **1909**—52, 482; **1910**—119, 123, 190, 203; **1911**—64, 331, 332, 381, 498, 725.

Roads. **1903**—58, 320, 477, 479, 480; **1904**—333; **1905**—17, 330, 567; **1907**—7, 245, 250; **1908**—5, 159; **1909**—482, 520, 560; **1910**—33, 59, 190, 203, 353, 634.

Rock drills (*see also* Deep-boring). **1900**—65, 195, 314; **1901**—265; **1902**—212, 445, 511; **1903**—20, 450; **1904**—13, 20, 62, 89, 255, 307-365, 492; **1905**—226; **1906**—145, 146, 267, 369, 383, 509, 538; **1907**—119, 332, 454; **1908**—174, 431, 432, 535; **1909**—45, 538; **1910**—436; **1911**—237, 545.

Roofs—*see* Buildings and structures.

Ropes grips and clips. **1910**—39, 217.

Ropes and cords. **1900**—395, 438; **1901**—44; **1903**—62; **1905**—159, 492; **1906**—436; **1907**—184, 604; **1909**—238; **1910**—505; **1911**—803.

Rotary engines (*see also* steam engines). **1900**—37, 52, 191, 290, 425, 451; **1901**—407, 457; **1902**—112, 140, 189, 273, 418, 497; **1903**—44, 85, 166, 169, 170, 255, 381, 430, 497, 524, 530; **1904**—77, 78, 79, 98, 135, 190, 191, 393, 404, 520; **1905**—92, 218, 250, 258; **1906**—42, 73, 81, 82, 83, 84, 114, 158, 312, 425, 441, 470, 591; **1907**—28, 118, 331, 337, 359, 379, 384, 436, 526, 541, 577, 578; **1908**—116, 167, 206, 218, 312, 324, 464, 517, 531; **1909**—24, 55, 98, 281, 351, 352, 544, 609; **1910**—7, 29, 321, 383, 615, 640; **1911**—65, 549, 575, 740.

Roundabouts. **1904**—314.

Rulers. **1904**—410; **1906**—494.

S

Saddlery—*sse* Harness and saddlery.

Safes. **1900**—317; **1901**—251; **1902**—8, 171; **1905**—479; **1906**—273; **1907**—412, 510; **1908**—76, 144, 255, 296; **1909**—363, 595; **1910**—84, 85; **1911**—19, 226.

Safety device for arresting moving bodies. **1910**—365, 366.

Safety pins—*see* Pins, dress and safety.

Salt. **1900**—104; **1904**—276, 362; **1908**—206; **1909**—128; **1910**—17, 408, 422.

Sand blast—*see* Grinding, sharpening and polishing.

Saucepans—*see* Cooking appliances.

Scales—*see* Weighing.

Screens—*see* Furniture.

Screws. **1909**—626; **1910**—38.

Sealing and stoppering bottles—*see* Stoppering.

Sealing war. **1911**—204.

Sericulture—*see* silk.

Sewage and its disposal (except furnaces). **1900**—18, 449; **1901**—191, 453; **1902**—296, 372; **1903**—78, 150, 256; **1904**—129, 481; **1905**—133, 147, 172, 341, 369, 396, 471; **1906**—44, 194, 260, 390, 468; **1907**—55, 97, 195, 355, 408; **1908**—93, 94, 95, 150, 265, 293, 407, 451; **1909**—167, 204, 235, 327, 331, 339, 348, 405, 473, 617; **1910**—285, 310, 326, 336, 426, 459; **1911**—136, 421, 422, 468.

Sewing machines. **1900**—101, 102; **1901**—5; **1902**—203, 353; **1903**—331, 449; **1906**—314; **1908**—346; **1909**—23, 193; **1910**—56; **1911**—320, 474, 514, 601, 780.

Shaving appliances. **1905**—514; **1906**—491; **1907**—286, 363, 500; **1909**—184, 185, 242; **1911**—758.

Sheep clippers—*see* Horse and similar clippers.

Ships and boats. **1900**—38, 143, 180, 323, 438; **1901**—27, 37, 83, 168, 192, 302, 308, 402; **1902**—56, 134, 138, 159, 376, 447, 462, 465, 521; **1903**—48, 105, 174, 298, 323, 384, 440, 484; **1904**—176, 244, 437; **1905**—42, 74, 78, 100, 166, 168, 225, 299, 354, 363, 419, 463, 502; **1906**—442, 481, 499, 500, 545; **1907**—52, 59, 66, 268, 283, 310, 423, 497; **1908**—38, 61, 64, 106, 146, 209, 237, 456, 469, 498, 508, 533; **1909**—195, 393, 451, 458, 583, 691; **1910**—6, 79, 119, 451, 505; **1911**—117, 160, 207, 545, 676.

Shirts—*see* Dress.

Shot—*see* Arms and ammunition.

Sifting, sorting and separating. **1900**—135; **1901**—349, 357; **1902**—28, 193, 234, 382, 383, 413, 414, 503; **1903**—199; **1906**—138, 345, 541, 584, 611; **1907**—10, 130, 579, 581; **1908**—124; **1909**—254, 285, 578; **1911**—54, 86, 177, 402, 618.

Signals, miscellaneous (*see also* Indicating and recording; Railway signals, Telegraphs). **1900**—81, 457; **1901**—8; **1902**—441, 457; **1905**—198, 354, 459; **1906**—6, 293, 551; **1907**—301, 377, 584, 594; **1908**—9; **1909**—2, 54, 455; **1910**—633; **1911**—20, 59, 97, 416, 503, 685.

Silk. **1900**—153; **1905**—162, 214, 215; **1907**—248; **1909**—661; **1910**—313, 647; **1911**—349.

Silicon and compounds. **1900**—419; **1907**—233; **1910**—305, 429.

Silver. **1900**—233; **1901**—72, 177; **1904**—335; **1905**—94, 95, 121, 548; **1906**—199, 200; **1907**—388; **1908**—141; **1909**—135, 371; **1910**—573; **1911**—351, 520, 580.

Sizing yarns and fabrics—*see* Dyeing, etc.

Sleepers—*see* Railways and tramways.

Sluices—*see* Hydraulic engineering.

Smoke abatement—*see* Furnaces and kilns.

Soap. **1900**—240; **1902**—454, 494, **1904**—49, 61, 68, 299; **1905**—310, 373; **1907**—153, 573; **1909**—425; **1911**—268, 356, 539, 669.

Sodium and compounds. **1905**—180, 181, 429, 475; **1906**—15; **1910**—431.

Soldering and brazing. **1900**—346; **1902**—44, 333, 341, 403; **1903**—204, 300; **1904**—90; **1906**—542; **1907**—605; **1908**—45; **1909**—201; **1910**—120, 131, 367, 368.

Soorkhi grinding—*see* Grinding.

Spades. **1901**—165; **1903**—90; **1906**—232, 422.

Spark arrestors—*see* Locomotives.

Spears and lances—*see* Arms and ammunitions.

Spectacles and the like. **1905**—564; **1907**—180, 375; **1908**—515; **1909**—74, 97; **1911**—224, 715.

Speed indicators—*see* Indicating, registering and recording.

Spikes—*see* Nails, spikes and tacks.

Spinning including preparation of fibres and yarns—

  Carding and combing. **1900**—433; **1902**—396; **1904**—234, 458; **1906**—265; **1907**—565; **1908**—181, 385; **1909**—111, 187, 325, 410; **1910**—137, 193, 281, 313, 337, 647; **1911**—6, 288, 333, 451, 651, 657, 801.

  Decorticating, breaking, scutching and opening. **1900**—114, 192, 193, 206, 224, 315, 372, 376, 442, 454, 465; **1901**—131, 132, 174, 271, 460; **1902**—25, 29, 78, 127, 144, 291, 300, 321, 400; **1903**—31, 198, 202, 237, 263, 264, 355, 373, 388, 390, 485, 489, 525; **1904**—86, 433; **1905**—41, 122, 132, 146, 187, 197, 257, 319, 374, 545; **1906**—141, 207, 373, 374, 386, 450, 463, 484, 541; **1907**—31, 46, 89, 199, 291, 378, 435, 462, 524, 565, 583; **1908**—183, 389, 454, 470, 491, 493; **1909**—129, 385, 404, 454, 565, 580; **1910**—150, 313, 392, 407, 454, 616; **1911**—35, 113, 122, 143, 158, 216, 227, 442, 445, 591, 617, 705, 747, 782.

Shipping including preparation of fibres and yarns—*contd.*

Fibre treatment (miscellaneous). **1901**—470; **1902**—35, 442; **1907**—575, 604; **1908**—243; **1909**—410, 545; **1910**—128, 313, 318, 392, 407; **1911**—54, 92, 321, 538.

Ginning. **1900**—296, 320; **1901**—304, 350, 450, **1912**—80, 163, 220, 281, 432, 470; **1903**—35, 60, 73, 275, 304, 395, 526; **1904**—112, 114, 169, 177, 182, 218, 220, 243, 291, 302, 326, 400, 421, 532; **1905**—51, 135, 156, 261, 278, 293, 398, 409, 418, 506, 546, 547; **1906**—27, 28, 50, 110, 306, 329, 418, 431, 432, 434, 437; **1907**—159, 176, 208, 212, 232, 264, 287, 534, 562, 574; **1908**—121, 143, 211, 270, 277, 289, 419, 422; **1909**—94, 383, 392, 497, 639; **1910**—159, 604; **1911**—69, 183, 300, 494, 586, 622, 749.

Electricity removing. **1904**—519; **1906**—106, 265.

Miscellaneous. **1910**—316.

Singeing. **1907**—50, 296.

Spinning, doubling, twisting and winding. **1900**—24, 41, 244, 329, 405, 480; **1901**—300, 319, 363, 425; **1902**—26, 38, 66, 227, 472, 47; **1903**—106, 123, 171, 184, 217, 259, 360, 361, 393, 505, 512, 513; **1904**—5, 189, 234, 235, 263, 278, 374, 393, 411, 462, 495, 498; **1905**—80, 83, 173, 210, 224, 230, 233, 281, 283, 298, 317, 384, 466, 468, 478, 537; **1906**—8, 11, 98, 205, 212, 252, 270, 271, 336, 353, 425, 486; **1907**—22, 32, 35, 37, 46, 87, 185, 242, 260, 333, 344, 353, 364, 492, 515, 542, 555; **1908**—28, 75, 89, 119, 186, 222, 271, 311, 390, 393; **1909**—79, 80, 92, 96, 110, 148, 240, 246, 380, 433, 563, 624, 644, 665; **1910**—27, 107, 189, 318, 388, 441, 475, 478, 479, 481, 506, 586, 654, 655; **1911**—67, 142, 243, 289, 295, 418, 497, 526, 600.

Tanas, skeins, cops, etc. **1900**—102; **1901**—488; **1902**—360, 435, 489, 490; **1903**—87, 141, 372; **1904**—81, 142, 145, 192, 380, 429, 444; **1905**—97, 224, 248, 451, 483; **1906**—111, 213, 251, 275, 352; **1907**—136, 304, 305, 413; **1908**—13, 50, 532; **1909**—177, 214; **1911**—163, 433.

Thread. **1909**—50.

Thread knotters. **1903**—351; **1908**—441; **1909**—610; **1910**—318.

Yarn clearers. **1910**—379.

Yarn washing and sizing—*see* Dyeing.

Spirit levels. **1902**—289; **1904**—371; **1909**—519.

Spray producers. **1901**—201, 221; **1902**—184; **1903**—129, 443; **1904**—427; **1905**—55, 567; **1907**—7, 18; **1910**—142, 203; **1911**—7, 761, 762.

Stable fittings. **1901**—21; **1908**—366.

Stamps—*see* Labels, etc.

Starch. **1910**—222.

Steam engines (*see also* Rotary engines). **1900**—5, 51, 98; **1901**—11, 168, 207, 263, 307, 442, 465; **1902**—2 104, 167, 445; **1903**—61, 182, 207, 370, 499; **1904**—45, 364; **1905**—165, 169, 250, 511; **1906**—73, 337, 574; **1907**—56, 76, 83, 85, 567; **1908**—7, 24, 97, 323, 488; **1909**—244, 281, 333, 337, 427, 428, 442, 465; **1910**—45, 383; **1911**—201.

Steam generators (*see also* Furnaces; Locomotives). **1900**—163, 231, 249, 282, 316; **1901**—241, 263, 442; **1902**—23, 51, 83, 175, 192, 214, 279, 280, 301, 327, 351, 412, 443, 514; **1903**—2, 61, 164, 438, 481; **1904**—262, 331, 529; **1905**—116, 195, 325, 382, 474, 481, 511, 532; **1906**—192, 236, 396, 503, 559; **1907**—30, 177, 204, 256, 284, 324, 423, 554; **1908**—60, 157, 334; **1909**—26, 35, 288, 664, 670, 690; **1910**—92, 151, 191, 292, 381, 387, 390, 402, 651; **1911**—56, 77, 133, 448, 489, 541, 708, 731.

Steam generators, preventing corrosion and incrustation. **1901**—441, 478; **1903**—277; **1904**—52, 67; **1910**—482.

Steel—*see* Iron and steel.

Sterilising—*see* Disinfecting, etc.

Stoking—*see* Furnaces.

Stone working and treating (*see also* Cement, etc). **1903**—203; **1904**—229, 471; **1906**—242, 385, 461; **1907**—222, 376, 550; **1908**—81, 297, 298; **1909**—224, 280; **1910**—254; **1911**—33.

Stools—*see* Furniture.

Stoppering bottles, etc. (*see also* Aërating and bottling.) **1900**—42, 182, 199, 312; **1901**—10, 59, 60, 85, 253, 270, 318, 327; **1902**—145, 361; **1903**—45, 83, 109, 154, 193, 266, 299, 415; **1904**—94, 151, 167, 349, 391, 392; **1905**—3, 5, 27, 56, 145, 236, 267, 305, 326, 353, 455, 523; **1906**—172, 256, 348, 445, 449, 477, 558, 617; **1907**—8, 94, 214, 215, 216, 323, 352, 457; **1908**—53, 118, 232, 263, 387; **1909**—2, 29, 43, 58, 170, 171, 172, 178, 353, 466, 490, 592, 620, 677, 685; **1910**—14, 55, 157, 235, 419, 456, 509, 608; **1911**—12, 83, 127, 214, 380, 593, 651, 661, 668, 759, 774.

Stoves—*see* Lamps and stoves.

Strontium and compounds. **1900**—419; **1905**—266.

Sugar. **1900**—15, 21, 295; **1901**—19, 20, 42, 147, 272; **1902**—150, 217, 225, 243, 422, 491; **1903**—15, 297, 468; **1904**—201, 202, 203, 249, 362, 417, 493; **1905**—57, 90, 266, 286, 335, 542; **1906**—215, 299, 301; **1907**—460, 481; **1908**—82, 334, 370, 413, 520; **1909**—27, 106, 115, 126, 168, 492, 570, 604, 608; **1910**—135, 276, 296, 372; **1911**—149, 205, 223, 361, 386, 465.

Sulphur and compounds. **1901**—258; **1906**—333; **1908**—478; **1910**—367, 368, 370.

Surveying. **1900**—84; **1903**—290, 497; **1904**—337; **1905**—490; **1907**—609, 610; **1909**—147, 220, 519, 558; **1910**—300; **1911**—536, 699, 700.

Sun's heat, utilizing. **1900**—143; **1901**—111, 365; **1902**—194; **1903**—162; **1908**—37, 206, 378; **1910**—31.

Superheaters—*see* Steam generators; Locomotives

T

Tables—*see* Furniture.

Tanas—*see* Spinning.

Tanks—*see* Water tanks.

Tanning—*see* Leather.

Targets. **1902**—67, 387, 475; **1903**—151, 180; **1904**—352, 479; **1905**—367; **1906**—176, 377; **1907**—54; **1909**—127, 241, 320, 625; **1910**—658; **1911**—20.

Taxidermy. **1908**—306.

Tape, perforating—*see* Printing; Telegraphs.

Tea—

Blending and bulking. **1900**—274, 347; **1902**—180, 383; **1903**—458; **1904**—155, 215; **1905**—222, 379; **1907**—509; **1908**—405.

Breaking. **1900**—76; **1901**—349; **1902**—234, 254, 503; **1903**—309; **1904**—516; **1907**—589; **1910**—149.

Compressed. **1901**—178, 331; **1905**—351; **1911**—29.

Cultivation. **1902**—290, 430; **1903**—308, 448, 469, 487; **1906**—570; **1907**—512; **1909**—44; **1911**—493.

Drying. **1900**—301, 426; **1901**—162, 182, 221, 355, 493; **1902**—249; **1903**—80, 272, 306, 322, 336, 434; **1904**—120, 256, 279, 287, 330, 359, 375, 496; **1905**—69, 86, 114; **1906**—178, 179; **1907**—328, 336, 557, 592, 614; **1908**—31, 57, 58, 184, 406; **1909**—119, 174, 283, 316, 487, 597, 598; **1910**—102, 138, 231, 387, 398, 463; **1911**—1, 26, 42, 43, 187, 240, 304, 359, 501, 534, 557, 652.

Dust, utilizing. **1903**—459, **1904**—279; **1907**—589.

Equalising. **1902**—20.

Extracts. **1901**—291.

Fermenting. **1901**—443; **1903**—488; **1907**—137, 162, 399; **1909**—176, 316; **1910**—398.

Firing. **1902**—502; **1903**—226, 272; **1907**—197.

Gathering. **1905**—242; **1909**—680; **1910**—232.

Green tea. **1900**—301; **1902**—253, 408, 502.

Tea—*contd.*
Lifts. **1907**—580, 581.
Packing. **1900**—30, 330; **1901**—179, 320; **1903**—32, 330; **1904**—438, 487; **1905**—32, 290, 351; **1906**—529; **1907**—16, 41, 438; **1909**—269.
Polishing. **1902**—249, 382, 383; **1903**—199, 226, 272, 301, 302, 306; **1904**—233; **1906**—157.
Rolling. **1900**—72, 228, 354; **1901**—6, 26; **1902**—235, 236, 367, 408; **1903**—272, 444, 459, 460; **1904**—120, 256, 485; **1905**—307; **1906**—586; **1907**—20, 77, 420, 504; **1908**—185, 304; **1909**—176, 180, 634, 692; **1910**—183, 184; **1911**—359, 546, 595, 802.
Sifting. **1902**—503; **1903**—199; **1907**—579, 581; **1909**—578; **1911**—402.
Sorting. **1901**—349, 454; **1902**—193, 234, 382, 383; **1911**—402.
Substitute. **1907**—206.
Winnowing and sizing. **1901**—454; **1906**—584.
Withering. **1900**—301, 332, 426, 444; **1901**—182; **1903**—422, 458; **1904**—375; **1906**—122; **1907**—521, 614; **1908**—197, 543; **1909**—176, 316; **1910**—169.
With additions. **1908**—405; **1911**—29.

Tea pots and coffee pots. **1900**—432; **1901**—164; **1902**—320; **1904**—117; **1905**—21; **1907**—241; **1911**—395.

Teaching appliances. **1900**—328; **1901**—262, 392; **1904**—294; **1906**—495.

Telegraphs (*see also* Electricity)—
Cables, wires and supports. **1901**—309; **1902**—336, 444; **1904**—497; **1905**—20; **1907**—347, 348, 414; **1909**—455, 459, 667; **1911**—210, 719, 779.
Exchanges. **1902**—355; **1905**—150; **1906**—246; **1910**—324.
Insulators. **1910**—404.
Portable sets. **1903**—89.
Receivers. **1908**—240; **1909**—72, 403; **1910**—195, 264, 360, 416, 558.
Transmitters. **1908**—240; **1909**—72; **1910**—195, 416.
Wire telegraph instruments. **1900**—9, 83, 108, 152, 203, 277, 386, 431, 457, 472; **1901**—112, 138, 139, 140, 142, 215, 231, 242, 360; **1902**—43, 55, 60, 226, 241, 310, 336, 343; **1903**—19, 190, 400; **1904**—38, 39, 40, 267, 281, 308, 322, 416, 451, 455; **1905**—110, 265, 486; **1906**—192, 293, 375, 430; **1907**—374, 447; **1908**—25, 163; **1909**—669; **1910**—196; **1911**—212, 228, 261, 717.
Wireless. **1900**—386, 431; **1901**—98, 112, 215; **1902**—60, 226, 343, 439; **1903**—93; **1904**—136, 188, 204, 205, 297, 455; **1905**—170, 338, 458, 524; **1906**—126, 190, 227, 229, 322, 499, 517; **1907**—124, 154, 179, 237, 326, 476, 478; **1908**—108, 240, 400; **1909**—72, 221, 255, 391; **1910**—195, 264, 399; **1911**—39, 719.

Telephones and microphones. **1900**—138, 166, 304, 379; **1901**—98, 360; **1902**—59, 101, 336, 355, 444; **1903**—89; **1904**—281; **1905**—96, 160; **1906**—229, 246; **1907**—84, 179, 183, 237 519; **1908**—90, 100; **1909**—403, 605, 669; **1910**—22, 195, 324, 360, 416, 558, 565; **1911**—44, 276, 737, 805.

Telescopes and glasses. **1900**—420; **1906**—409.

Tents. **1900**—69, 355, 438; **1901**—68; **1902**—468, 501; **1903**—7, 18; **1904**—303, 443; **1905**—259, 406, 426; **1906**—89, 341, 441; **1907**—205; **1908**—102; **1910**—139; **1911**—184, 309, 360, 392, 516, 644.

Textiles—*see* Dyeing; Spinning; Weaving.

Tickets—*see* Labels and tickets.

Tide and wave mills. **1900**—165; **1902**—438; **1905**—553; **1906**—446, 612; **1907**—236, 427; **1910**—470, 597; **1911**—486.

Tiffin carrier. **1901**—85; **1906**—471; **1910**—188; **1911**—336.

Time and fare tables. **1906**—220.

Tinning and galvanizing. **1902**—480; **1905**—6; **1908**—32; **1909**—209, 340; **1910**—142.

Tins—*see* Cans.

Titanium and compounds. **1900**—263.

Tobacco (*see also* Cigars, etc., Pipes, etc.). **1902**—411; **1904**—317; **1906**—100; **1908**—248; **1909**—142, 144, 390; **1911**—116, 493.

Tongas—*see* Road vehicles.

Traction engines—*see* Locomotives.

Tools (Miscellaneous). **1900**—202; **1901**—13, 88, 218; **1902**—50, 215; **1903**—532; **1907**—44, 173; **1908**—29, 122, 375, 395; **1909**—236, 361, 564; **1911**—241, 242, 656.

Tramways—*see* Railways.

Traps. **1910**—323.

Treadmills. **1901**—167, 396; **1903**—4, 75; **1905**—394; **1906**—125; **1907**—169; **1908**—35; **1909**—486.

Trucks—*see* Road vehicles; Railway vehicles.

Tubes—*see* Pipes and tubes.

Tungsten and compounds. **1908**—280, 425, 504; **1910**—421, 447.

Tunnels and tunnelling. **1906**—196; **1910**—273, 274.

Turbines—*see* Rotary engines.

Turmeric. **1905**—63.

Typewriters. **1900**—129; **1901**—82, 284; **1904**—100; **1905**—252, 399; **1906**—423, 555; **1907**—84, 115, 470, 501, 560, 615; **1908**—36, 199, 238, 546; **1909**—70, 122, 237, 470, 516, 518, 566, 652, 653, 654, 655, 656; **1910**—82, 356, 439; **1911**—40.

Tyres—*see* Wheels and tyres for vehicles.

U

Umbrellas and parasols. **1900**—305; **1901**—87, 115, 367, 406; **1902**—47, 376; **1903**—34, 518; **1904**—108, 422; **1907**—315; **1908**—266; **1909**—577; **1911**—542.

V

Valises—*see* Boxes, bags and cases.

Valves and cocks. **1900**—17, 18, 178, 198, 214, 225, 242, 253, 307, 324, 373, 401, 410, 429, 443; **1901**—18, 55, 249, 250, 257, 375, 420, 432, 433, 434, 448, 455, 476; **1902**—147, 201, 339, 354, 405, 445, 486, 523; **1903**—45, 124, 219, 296, 356, 439, 499; **1904**—125, 160, 186, 345, 355, 364, 373, 381; **1905**—1, 18, 24, 133, 151, 166, 169, 174, 305, 312, 340, 380, 410, 424, 480; **1906**—19, 54, 120, 264, 289, 332, 411, 414, 421, 522, 550, 604; **1907**—56, 71, 211, 281, 381, 422, 425, 431, 472, 567, 568; **1908**—97, 99, 241, 316, 403, 479, 529; **1909**—47, 272, 277, 278, 281, 337, 339, 366, 465, 496, 526, 529, 530, 546, 611, 632; **1910**—19, 45, 55, 61, 174, 197, 327, 352, 357, 390, 462, 484, 564, 584, 666; **1911**—60, 95, 96, 179, 188, 195, 201, 291, 632, 636, 678, 702.

Vehicles—*see* Bicycles; Motor cars; Railway vehicles; Road vehicles; Wheels and tyres.

Velocipedes—*see* Bicycles.

Veneer—*see* Wood and wood working.

Ventilation (*see also* Centrifugal fans and pumps; Doors; Windows; Punkhas). **1900**—308; **1901**—144, 196, 204, 214, 230, 346, 401, 430, 453; **1902**—71, 157, 379; **1903**—18, 284, 338, 354, 501; **1904**—43, 55, 185, 358, 481; **1905**—81, 232, 462, 500; **1906**—497; **1907**—165, 294, 559; **1908**—3, 205, 209, 237, 302; **1909**—84, 167, 360, 594; **1910**—185, 202, 346, 538, 542; **1911**—9, 468, 559.

Vermin destroying. **1900**—10, 419, 512; **1903**—387; **1904**—46; **1906**—124, 167, 402; **1907**—308, 446; **1908**—188, 246, 283; **1909**—8, 88, 191, 386; **1910**—323, 505; **1911**—9, 200, 271, 313, 409, 456, 493, 512.

Vinegar. **1909**—513.

W

Walls—*see* Buildings and structures.

Wash hand basins. **1903**—496; **1905**—16; **1910**—544; **1911**—94.

Washers—*see* Bolts, studs, nuts and washers.

Washing glasses and bottles. **1903**—391; **1906**—498; **1911**—398.

Washing ores—*see* Ores, treating.

Washing yarns and fabrics—*see* Dyeing, etc.

Watches—*see* Clocks, etc.

Water-closets—*see* Latrines.

Water lifts (except pumps; Centrifugal fans and pumps. **1900**—74, 111, 237, 238, 273, 276, 299, 321; **1901**—116, 151, 240, 280, 297, 317, 371, 372, 396, 436, 477; **1902**—209, 236, 434, 446; **1903**—59, 75, 125, 256, 276, 318, 319, 411, 412, 419, 455, 534; **1904**—115, 174, 237, 265, 347, 401, 457, 526, 538; **1905**—9, 46, 79, 123, 155, 251, 346, 394, 553; 1906—125, 230, 285, 284, 338, 366, 399, 518, 553; **1907**—123, 152, 188, 235, 382, 421, 465, 502, 508, 523, 580, 596; **1908**—17, 35, 62, 92, 113, 231, 272, 273, 274, 320, 372, 451, 477, 517; **1909**—63, 105, 145, 173, 175, 211, 216, 223, 370, 382, 395, 415, 453, 486, 510; **1910**—15, 83, 101, 170, 211, 223, 391, 470, 510, 562; **1911**—50, 76, 138, 249, 382, 448, 589, 594, 631.

Watering carts (*see also* Roads). **1910**—203.

Waterproofing. **1900**—86; **1902**—94; **1905**—492; **1906**—302; **1907**—544; **1910**—591; **1911**—131, 587.

Water purifying. **1902**—5, 221, 483; **1903**—353; **1904**—348, 514; **1905**—101; **1906**—544; **1907**—256, 340; **1908**—440; **1909**—12, 85, 426, 664; **1910**—165, 482, 581, 645; **1911**—229, 266, 310, 311, 319, 328, 449.

Water tanks, cisterns, and carriers. **1904**—99, 143, 309, 373, 449, 531; **1905**—76, 186, 389, 459, 470; **1906**—289, 328; **1907**—195; **1909**—203.

Water wheels. **1900**—191; **1901**—348; **1904**—271; **1905**—553; **1906**—446, 612; **1907**—161, 597; **1908**—218, 531; **1909**—544; **1910**—106, 396, 425, 443.

Weaving—

Fabrics, kinds of. **1900**—109, 115; **1901**—4, 91; **1902**—61, 74; **1903**—407; **1905**—336, 337, 492; **1906**—340; **1907**—144, 203, 372; **1908**—528; **1909**—270; **1910**—255, 388, 652; **1911**—181, 470.

Fabrics, washing—*see* Dyeing.

Looms. **1900**—105, 173, 220, 230, 247; **1901**—2, 79, 124, 360, 408; **1902**—3, 61, 74, 417; **1903**—22, 189, 231, 268, 287, 344, 467, 482, 535, 536; **1904**—47, 162, 175, 181, 182, 418, 456, 484; **1905**—62, 206, 510, 554; **1906**—25, 37, 57, 66, 118, 137, 149, 152, 231, 250, 320, 330, 340, 415, 528, 575; **1907**—102, 122, 138, 203, 318, 367, 469, 595; **1908**—10, 67, 74, 152, 164, 178, 208, 250, 259, 329, 355, 373, 514; **1909**—51, 157, 199, 249, 270, 400, 481, 539, 559, 585, 618; **1910**—129, 146, 148, 225, 260, 302, 386, 438, 494, 495, 502, 588, 592, 591, 609, 663; **1911**—71, 119, 147, 148, 174, 191, 199, 208, 296, 400, 432, 447, 463, 464, 532, 535, 556, 560, 572, 730.

Tanas, skeins, etc.—*see* Spinning.

Thread knotters. **1903**—351; **1911**—108.

Weighing. **1900**—374; **1901**—25, 53, 385; **1902**—179; **1903**—11, 413, 433; **1904**—467, 487; **1905**—351; **1906**—221, 298; **1907**—192; **1909**—195, 616; **1910**—253, 667; **1911**—283, 325.

Wells. **1900**—11, 162, 223; **1901**—477, 487; **1903**—14; **1906**—9; **1910**—176, 274, 642; **1911**—765.

Wheels and tyres for vehicles. **1900**—300, 409, 453; **1901**—169, 370, 394, 440, 475; **1902**—57, 93, 228, 381, 391, 436, 463; **1903**—16, 160, 161, 194, 285, 375, 398, 504, 521; **1904**—7, 194, 260, 329, 356, 475, 507, 522; **1905**—60, 61, 87, 219, 239, 380, 390, 434, 448, 450, 488, 543, 558; **1906**—29, 92, 102, 109, 117, 139, 171, 184, 193, 198, 206, 245, 247, 269, 277, 280, 288, 295, 308, 371, 424, 493, 535, 616; **1907**—24, 40, 57, 65, 91, 93, 96, 103, 126, 265, 266, 274, 321, 345, 362, 613; **1908**—1, 79, 96, 109, 142, 192, 215, 267, 314, 354, 453, 510, 527; **1909**—4, 7, 25, 69, 164, 218, 219, 256, 257, 296, 329, 330, 356, 409, 434, 507, 508, 531, 532, 535, 536, 600, 666; **1910**—25, 43, 61, 75, 115, 132, 133, 143, 173, 205, 206, 219, 241, 271, 284, 380, 430, 434, 437, 448, 489, 491, 492; **1911**—2, 14, 280, 379, 439, 519, 522, 555, 570, 653, 671, 712, 750, 776, 792, 795.

Windmills. **1900**—439; **1903**—140; **1904**—295; **1905**—395, 539; **1906**—307, 311; **1909**—346, 544; **1910**—106; **1911**—734.

Windows (*see also* Railway vehicles). **1901**—329, 346; **1903**—338; **1904**—55, 341; **1905**—58, 232, 446, 462, 500; **1908**—209; **1909**—419, 647; **1910**—256, 598; **1911**—9, 151, 440, 547.

Wire. **1903**—490; **1905**—6, 83, 468; **1906**—159, 160, 161, 162; **1909**—50, 489; **1910**—54; **1911**—783.

Wire ropeways—*see* Railways.

Wood and wood working. **1900**—86, 121, 239, 269; **1901**—173, 200; **1902**—41, 143, 463, 512; **1903**—175, 246, 387, 401, 402, 465; **1904**—166, 199, 376; **1905**—355, 381, 494, 495, 496, 497, 498, 499, 516, 551, 552; **1906**—30, 91, 218, 222, 188, 529; **1907**—550, 561; **1908**—118; **1909**—104, 137, 161, 261; **1910**—52, 527; **1911**—33, 98, 381, 455, 581, 583, 599.

Y

Yarn *see* Dyeing, etc.; Spinning.

Yeast. **1903**—483; **1907**—201; **1908**—16; **1911**—771, 772.

Z

Zinc and compounds. **1901**—72; **1902**—480; **1903**—41, 313; **1904**—264; **1905**—180, 181; **1906**—200, 583; **1907**—219; **1908**—427; **1910**—367, 368, 579.

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